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Farmer Cooperative Statistics 1983

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FARMER COOPERATIVES IN THE UNITED STATES
COOPERATIVE INFORMATION REPORT 1
SECTION 27

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL COOPERATIVE SERVICE



Abstract

FARMER COOPERATIVE STATISTICS, 1983 by Ralph M. Richardson, Celestine C. Adams, Katherine C. DeVille, Frances E. Mahan, Elizabeth J. Simmons, and John W. Stutzman, Cooperative Management Division, Agricultural Cooperative Service, U.S. Department of Agriculture, Cooperative Information Report 1, Section 27 December 1984.

A survey of U.S. farmer cooperatives for calendar year 1983 showed a decrease in total business volume as well as a continuing decline in number of organizations and memberships. Total gross business and total net business volume are reported for 5,989 cooperatives. Business volume, number of cooperatives, and cooperative memberships are reported by commodity for those cooperatives classified as marketing, farm supply, and related service. Cooperative growth trends show changes in cooperative members, business size, sales volume, and share of marketing and purchasing activity. Data on balance sheet and net margins and selected activities of other service organizations are presented.

Key words: cooperatives, statistics, business volume, memberships, balance sheet, net margins.

Preface

Farmer cooperative statistics are collected annually to provide information on the progress and trends in cooperatives' growth and development. Many people use these statistics for various purposes such as research, technical assistance, education, planning, and public policy. Acquiring, analyzing, and disseminating farmer cooperative statistics are authorized by the Cooperative Marketing Act of 1926.

This report provides detailed information on the number, membership, and business volume of farmer cooperatives classified by commodity and functional type. Both gross (includes intercooperative business) and net (excludes intercooperative business) dollar volumes of cooperatives are shown.

Basic information is provided on the balance sheet and net margins of farmer cooperatives by principal product marketed and major functional type.

Data are collected from individual farmer cooperatives by mail survey of organizations identified by Agricultural Cooperative Service (ACS), as meeting the requirements of the ACS definition of a farmer cooperative.

A stratified random sample of a large proportion of farmer cooperatives is used every 3 out of 4 years to reduce the work of collecting and assembling data and to enable more timely publishing of statistics. National estimates are published every year. State estimates are published every other year. Statistics for 1983 are particularly important because they are gathered from a total enumeration.

ACS depends on the cooperative community's response to its annual survey to develop a detailed and comprehensive set of statistics on farmer cooperatives. The time and effort taken to provide information and the rapidity with which it is furnished are greatly appreciated.

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Highlights

In 1983, marketing, farm supply, and related service cooperatives declined in number, memberships, and business volume. However, net margins on business volume increased nearly 23.5 percent.

The total number of cooperatives dropped from 6,125 to 5,989, a net decrease of 136 associations. Each year, new cooperatives are formed and others disappear as they go out of business due to consolidation, merger, acquisition, or unsuccessful operations.

Memberships dropped from 5,135,774 to 4,954,758, a decrease of 3.5 percent.

Total gross business volume (including intercooperative business) handled by cooperatives amounted to \$88.7 billion, down 6.7 percent from \$95.1 billion.

Total net business, excluding business done between cooperatives, amounted to \$66.8 billion, down 3.5 percent from \$69.2 billion. Net margins were \$1.06 billion, up from \$854 million. The net margins included intercooperative dividends and refunds of \$193 million.

The gross value of farm products marketed by cooperatives amounted to \$61.2 billion, a decrease of 6.7 percent from \$65.6 billion. The net value of these farm products, after eliminating duplication resulting from intercooperative business, amounted to \$49.3 billion, a 4-percent decrease from \$51.4 billion.

The gross value of farm supplies handled by farmer cooperatives amounted to \$26.1 billion, decreasing 7.3 percent from \$28.1 billion. The net value of these supplies, after intercooperative business was eliminated, amounted to \$15.9 billion, down 2.6 percent from \$16.4 billion.

Receipts for services related to marketing farm products and handling farm supplies amounted to \$1.5 billion, an increase of 5.3 percent from \$1.4 billion.

Iowa was the leading State in combined marketing, farm supply, and related service volume, with nearly \$5.8 billion—8.6 percent of total net business; California was second with nearly \$5.4 billion; and Minnesota ranked third with more than \$5.3 billion.

Minnesota had the most cooperatives with 673, Texas was second with 422, and North Dakota was third with 396.

Combined assets for all farmer cooperatives totaled \$28.8 billion, up nearly 1 percent from \$28.6 billion. Net assets, after eliminating inter-cooperative investments, were up slightly—\$25.9 billion compared with \$25.8 billion.

Total liabilities were \$17.3 billion, down 0.7 percent from \$17.4 billion.

Net worth, or member and patron equity, increased 3.4 percent from \$11.2 to \$11.5 billion. Member and patron equity financed 40 percent of total assets, up from 39.1 percent.

Highlights Capsule

	1983	1982
Number of cooperatives	5,989	6,125
Memberships	4,954,758	5,135,774
Business volume (\$1,000)	66,754,824	69,150,336
Net margins (\$1,000)	1,055,268	854,316
Total assets (\$1,000)	28,809,580	28,552,732

Leading States:

	1983	1981
Number of cooperatives	Minnesota (673)	Minnesota (722)
Memberships	Minnesota (448,497)	Minnesota (525,709)
Business volume (\$1,000)	Iowa 5,757,965	California 7,475,830

Farmer Cooperative Statistics 1983



I—Definition of a Farmer Cooperative

For inclusion in the annual survey, a cooperative is defined as one that meets the following requirements:

(1) Farmers or agricultural producers hold the controlling interest in the cooperative; (2) no member of the cooperative is allowed more than one vote because of the amount of stock or membership capital owned *or* the cooperative does not pay dividends on stock or membership capital in excess of 8 percent a year, or the legal rate in the State, whichever is higher; and (3) the cooperative does not deal in products of non-members in an amount greater in value than it handles for its members.

This definition may result in showing a larger or smaller number of farmer cooperatives than found in lists or directories of State agencies or cooperative councils. Agricultural Cooperative Service (ACS) includes only marketing, farm supply, and related service cooperatives on its list. Livestock shipping associations and wool pools are included as marketing cooperatives. Many State lists include other types of cooperatives such as production, credit, telephone, electric, and consumer cooperatives as well as those that do not fulfill ACS's definition. Another reason for differences in the count or number of cooperatives is that cooperatives may operate in a specific State for a considerable period of time before they are included in the national survey. This may be due to one of the following reasons: (1) ACS may not learn of the existence of the cooperative immediately; (2) the cooperative may not have completed and returned the initial questionnaire; or (3) no notification is received of a cooperative that quits operating.

Readers who wish to make comparisons from year to year in specific commodity groups, therefore, should keep in mind the differences in lists and classifications in State and Federal data.

Classification of Cooperatives

Statistics are presented according to a cooperative's major function, or classification, such as marketing, farm supply, and related service cooperatives. These classifications are defined as follows:

Marketing cooperatives are associations whose primary business is marketing farm products for members—that is, more than 50 percent of total dollar volume was derived from the sale of members' farm products. Marketing cooperatives are further classified according to which major commodity of 13 classifications is predominant (in terms of dollar volume) in each association's business. If a cooperative consistently indicates it is handling a larger volume of a commodity than the one it was originally organized to handle, and which provided the basis for its initial classification, it is reclassified by the commodity currently representing the predominant product in its business volume.

Cooperatives first furnished data by individual commodities handled and services performed in the 1950-51 survey.¹ Cooperatives operating on a multistate basis were asked to furnish information on memberships and business volumes for the individual States they served. Before that time, all memberships and business were credited to the States in which each association maintained its headquarters.

Farm supply cooperatives are those whose farm supply business accounted for more than 50 percent of total dollar volume.

Farm supply cooperatives include those handling all types of farm production supplies and equipment such as feed, seed, fertilizer, petroleum products, farmstead equipment, and building supplies. Some also handle items such as heating oil, lawn and garden equipment, and food.

Major functions of *related service* cooperatives are trucking, storing, drying, artificial insemination, or similar services related to marketing or farm supply activities.

Many cooperatives handle more than one commodity and provide both marketing and farm supply facilities, as well as facilities and equipment to perform related services such as storing, drying, and trucking. These associations are classified according to the predominant commodity or function as indicated by their business volumes.

Other types. Additional data on the number, participation, and activity of service cooperatives or organizations such as rural electric cooperatives, production credit associations, rural credit unions, and dairy herd improvement associations are summarized.

¹A detailed discussion of the revisions initiated in statistical methods in 1950-51 was given in *Statistics of Farmers' Marketing, Purchasing, and Service Cooperatives, 1950-51*, U.S. Dept. Agri., Farm Credit Admin., Misc. Rpt. 169, pp. 1-3.

Organizational Structures

Centralized

Most farmer cooperatives are centralized organizations. Individual farmers make up the membership. These 5,819 centralized cooperatives usually serve a local area or community, county, or several counties. Most local associations usually perform a limited number of the first steps of marketing. In farm supply associations, practically all sales are at the retail level. A few centralized cooperatives operate over large geographic areas and have members in several States. They often provide more vertically integrated services such as processing farm products or manufacturing feed and fertilizer.

Bargaining associations usually have centralized organizational structures. These associations derive all or a major portion of business volume from negotiating with distributors, processors, and other buyers and sellers over price, quantities, grade, terms of sale, and other factors involved in marketing farm products; only a few bargain for the purchase of farm supplies. While the primary function of such an association is to bring buyers and sellers together to contract for the sale of members' products, many bargaining associations now perform additional functions. For example, dairy bargaining associations at one time generally performed only price negotiation. Now, many perform additional functions, such as physically handling a portion of the milk and making spot sales for their patrons. Bargaining associations, like other dairy marketing cooperatives, represent their members at Federal or State milk marketing order hearings.

Federated

Federated cooperatives comprise two or more member associations organized to market farm products, purchase production supplies, or perform bargaining functions. Member associations often operate at points quite distant from federation headquarters. Ninety-six federated cooperatives have been identified. Individual farmers are not members of strictly federated associations, rather, they are members of cooperatives that comprise the federation—sometimes called a regional cooperative. Also, some federations are made up of regional cooperatives—often called interregional associations.

Mixed

A small number of cooperatives have both individual farmer-members and autonomous cooperative members. Therefore, these associations are a combination of both the centralized and federated struc-

tures. Often, these cooperatives serve large geographic areas with members in many States and provide a variety of integrated services. Seventy-four cooperatives have been identified as having a "mixed" structure.

II—Cooperative Growth Trends

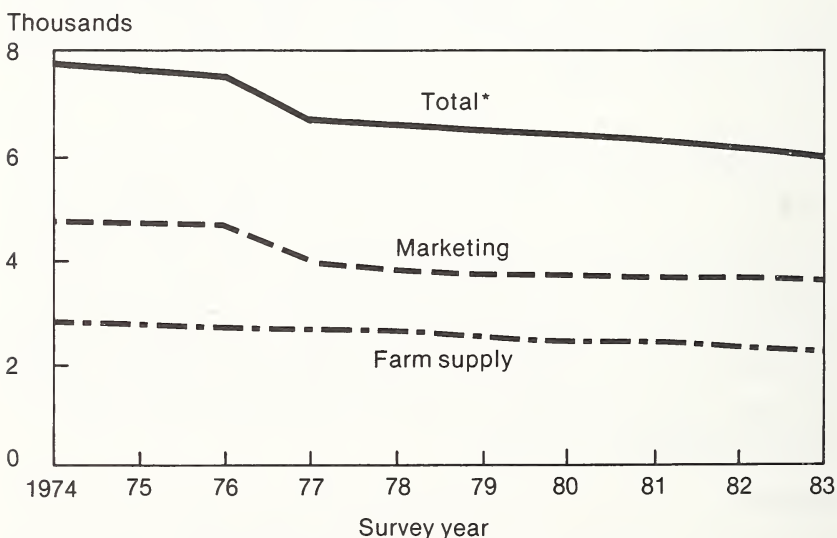
As cooperatives declined in number, they grew in size and increased their importance as purchasers of supplies and marketers of products for members. Business volume of farmer cooperatives nearly tripled in the decade between fiscal year 1974 and calendar year 1983.

Number of Organizations

The total number of marketing, farm supply, and related service cooperatives declined from 7,755 in 1974 to 5,989 in 1983 (table 1 and fig. 1). The number of marketing cooperatives declined from 4,822 to 3,647 and farm supply cooperatives from 2,778 to 2,208. The number of service cooperatives declined from 155 to 134.

Figure 1

Farmer Cooperatives in the United States



*Total includes a small number of cooperatives that provide specialized related services.

Table 1—Number and percentage of predominantly marketing, farm supply, and related service cooperatives, selected years

Period ¹	Marketing		Farm supply		Related service		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
1950-51	6,519	64.8	3,283	32.6	262	2.6	10,064	100.0
1955-56	6,284	63.5	3,375	34.1	235	2.4	9,894	100.0
1960-61	5,727	62.5	3,222	35.2	214	2.3	9,163	100.0
1961-62	5,626	62.2	3,206	35.5	207	2.3	9,039	100.0
1962-63	5,502	61.8	3,211	36.0	194	2.2	8,907	100.0
1963-64	5,421	61.3	3,226	36.5	200	2.2	8,847	100.0
1964-65	5,305	61.8	3,085	35.9	193	2.3	8,583	100.0
1965-66	5,194	62.4	2,949	35.4	186	2.2	8,329	100.0
1966-67	5,076	62.5	2,871	35.3	178	2.2	8,125	100.0
1967-68	4,929	62.1	2,835	35.7	176	2.2	7,940	100.0
1968-69	4,773	61.6	2,793	36.1	181	2.3	7,747	100.0
1969-70	4,834	62.1	2,775	35.6	181	2.3	7,790	100.0
1970-71	5,097	63.7	2,731	34.2	167	2.1	7,995	100.0
1971-72	4,864	62.4	2,781	35.7	152	1.9	7,797	100.0
1972-73	4,897	62.3	2,801	35.7	156	2.0	7,854	100.0
1973-74	4,822	62.2	2,778	35.8	155	2.0	7,755	100.0
1974-75	4,770	62.4	2,729	35.7	146	1.9	7,645	100.0
1975-76	4,658	61.8	2,731	36.3	146	1.9	7,535	100.0
1976-77	4,008	59.5	2,593	38.5	135	2.0	6,736	100.0
1978 ²	3,930	59.6	2,550	38.6	120	1.8	6,600	100.0
1979	3,825	59.3	2,507	38.9	113	1.8	6,445	100.0
1980	3,808	60.5	2,369	37.7	116	1.8	6,293	100.0
1981	3,743	60.3	2,356	37.9	112	1.8	6,211	100.0
1982	3,714	60.7	2,299	37.5	112	1.8	6,125	100.0
1983 ³	3,647	60.9	2,208	36.9	134	2.2	5,989	100.0

¹For years before 1950-51, see appendix table 5, FCS General Report 128 in libraries.

²Previously, data for farmer cooperatives were reported on a fiscal year basis. Beginning in 1978, data are included for the calendar year. Data for 1978 are estimated.

³Preliminary.

Business Size

Measured by annual gross business volume, farmer cooperatives increased in size. Although the majority of cooperatives remain small and primarily serve local areas, a growing number are seeking regional, or even national, markets as a means of business growth and survival.

The increased size of individual cooperatives comes in part from mergers and consolidations. However, data used were not adjusted for changes in price levels and some size changes are due in part to inflationary effects.

In 1983, 90.4 percent of all farmer cooperatives reported business volumes of less than \$15 million, representing 20.9 percent of the total gross dollar volume (table 2). Only 1.2 percent of farmer cooperatives reported business volumes of \$200 million or more. These cooperatives, however, accounted for 55.1 percent of total sales compared with 45.1 percent in 1976².

The 100 largest cooperatives (usually operating over large geographic areas) make up an important segment of farmer cooperatives. During 1976, the 100 largest cooperatives accounted for about \$31.5 billion, or 56.4 percent of total gross business volume. By 1983, the 100 largest cooperatives³ accounted for nearly \$53.4 billion in business volume, 60.1 percent of the total. These cooperatives, however, directly and through member cooperatives serve a large proportion of the total memberships.

²Comparable data not available for the 1974 fiscal period.

³Based on amount of annual gross sales (includes intercooperative sales) but without regard to size of assets.

Table 2—Farmer cooperatives grouped by gross business volume, 1983¹

Volume group	Cooperatives		Dollar volume	
	Number	Percent of total	Gross ² (000)	Percent of total
Less than \$15 mil.	5,422	90.4	18,568,426	20.9
\$15 - 24.9 mil.	253	4.2	4,836,495	5.5
\$25 - 49.9 mil.	135	2.3	4,690,232	5.3
\$50 - 99.9 mil.	63	1.1	4,538,691	5.1
\$100 - 199.9 mil.	49	0.8	7,171,850	8.1
\$200 - 249.9 mil.	15	0.3	3,557,488	4.0
\$250 - 499.9 mil.	28	0.5	9,944,836	11.2
\$500 - 999.9 mil.	12	0.2	10,011,700	11.3
\$1,000 mil. and over	12	0.2	25,410,794	28.6
Total	5,989	100.0	88,730,512	100.0

¹Preliminary.

²Includes intercooperative volume.

Business Volume

Net cooperative business, unadjusted for changes in the price level, increased from \$35.4 billion in 1974 to \$66.8 billion in 1983 (table 3 and fig. 2).

During this 10-year period, marketing of farm products declined from 76 to 74 percent of annual net business volume; purchases of production supplies rose from 22 to 24 percent; and related services remained about 2 percent.

Marketing volume increased from \$26.9 billion to \$49.3 billion, supplies purchased from \$7.8 billion to \$15.9 billion, and services provided from \$658 million to \$1.5 billion.

Grain, soybeans, and soybean meal and oil; dairy products; fruits and vegetables; and livestock and livestock products increased from 83 percent of all products marketed in 1974 to 85 percent in 1983.

In 1983, dairy products accounted for a substantially greater proportion of total cooperative business than in 1974. Grain, soybeans, and soybean meal and oil showed a moderate increase. Fruits and vegetables and livestock and livestock products both declined. Among lesser commodities, both poultry products and sugar products declined while cotton and cotton products showed a slight increase.

Figure 2

Business Volume of Farmer Cooperatives

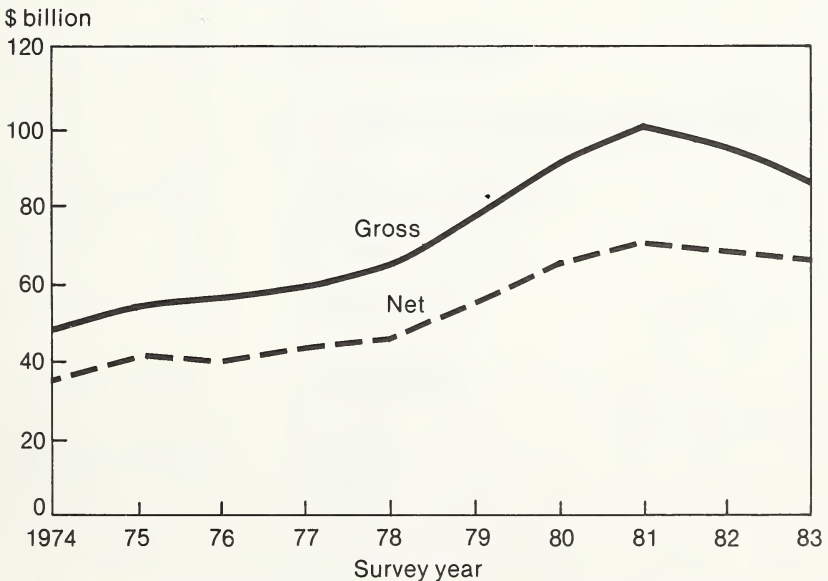


Table 3—Number and net volume of cooperatives handling farm products, farm supplies, and service receipts, 1974 and 1983¹

Item	1974		1983	
	Cooperatives handling	Net volume	Cooperatives handling	Net volume
	<i>No.</i>	<i>1,000 dol.</i>	<i>No.</i>	<i>1,000 dol.</i>
Products marketed:				
Beans and peas (dry edible)	46	140,985	52	81,585
Cotton and cotton products	494	873,963	487	1,721,544
Dairy products	631	7,221,972	418	16,765,593
Fruits and vegetables	436	2,387,498	394	4,241,335
Grain, soybeans, and soybean meal and oil	2,540	9,645,767	2,275	16,217,999
Livestock and livestock products	572	3,149,603	402	4,767,955
Nuts	50	497,491	35	826,704
Poultry products	167	815,194	63	1,043,177
Rice	62	788,406	62	864,722
Sugar products	62	997,517	47	1,682,481
Tobacco	28	297,505	35	393,605
Wool and mohair	164	30,927	181	29,183
Miscellaneous	83	96,964	102	707,670
Total farm products	² 4,817	26,943,792	² 4,173	49,343,552
Supplies purchased:				
Building materials	2,168	248,382	1,887	408,759
Containers	842	134,739	520	96,850
Farm chemicals	3,328	385,957	3,407	1,250,216
Farm machinery and equipment	1,304	194,421	1,690	363,462
Feed	3,744	2,463,884	3,295	3,594,064
Fertilizer	3,865	1,588,853	3,442	2,837,204
Meats and groceries	486	95,616	436	123,711
Petroleum products	2,624	1,519,186	2,742	5,433,841
Seed	3,553	306,198	3,318	483,081
Other supplies	4,224	826,791	3,922	1,351,768
Total farm supplies	² 5,554	7,764,027	² 4,558	15,942,957
Receipts for services:				
Trucking, cotton ginning, storage, grinding, locker plants, miscellaneous	² 4,586	³ 657,730	² 4,129	³ 1,468,316
Total business	² 7,755	35,365,549	² 5,989	66,754,824

¹Preliminary. Totals may not add due to rounding.

²Adjusted for duplication arising from multiple activities performed by many cooperatives.

³Charges for services related to marketing or purchasing but not included in the volume reported for these activities.

In the farm supply group, three items—petroleum products, feed, and fertilizer—were especially important. They accounted for 72 percent of the total production supply business in 1974 and 74 percent in 1983.

Considering changes in the production supplies group, however, the proportion of total business volume accounted for by feed and fertilizer declined, while the proportion accounted for by petroleum products increased substantially. Farm chemicals also increased in proportion, while other production supplies decreased slightly.

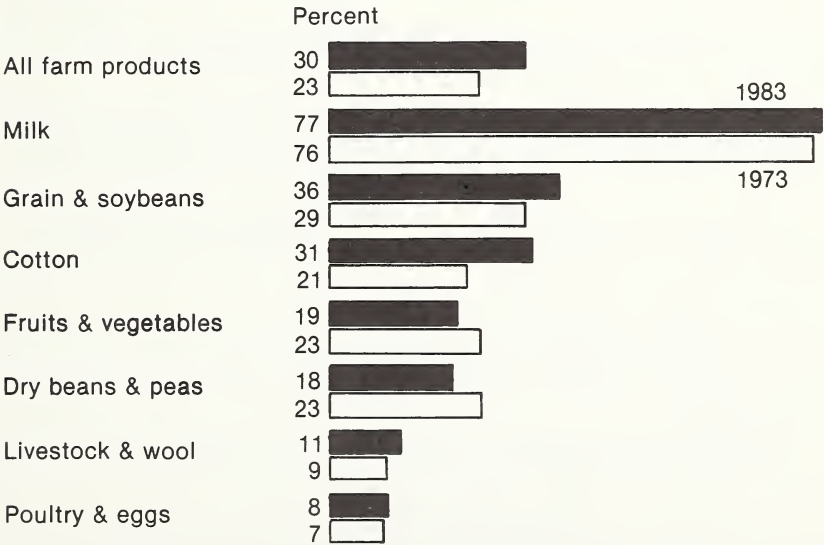
Market Share

Cooperatives accounted for about 23 percent of the agricultural products marketed at the first-handler level in 1973 (figure 3). This share increased to 30 percent in 1983. Market share was largest for milk in both 1973 and 1983. The lowest proportions were in livestock and poultry. Individual commodities with shares higher than the overall average were milk, grain and soybeans, and cotton.

Farmers in 1973 purchased 23 percent of the major farm supplies (fertilizer and lime, petroleum and products, farm chemicals, feed, and seed) at the first-handler level through cooperatives (figure 4). This pro-

Figure 3

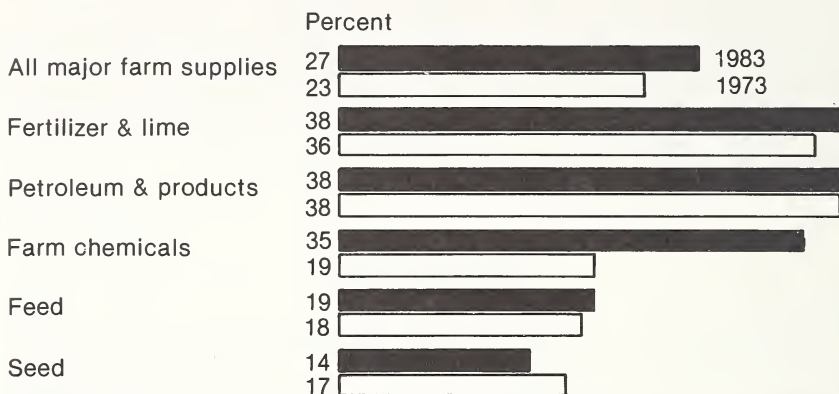
Cooperatives' Share of Marketing Activity*



* First handler level.

Figure 4

Cooperatives' Share of Purchasing Activity *



portion increased to 27 percent in 1983, due mostly to larger volumes of farm chemicals moving through cooperatives. Fertilizer, petroleum, and farm chemicals were handled in greater proportion than the overall average.

III—1983 Statistics

Number of Cooperatives

The 1983 survey accounted for 5,989 marketing, farm supply, and related service⁴ cooperatives, compared with 6,125 in 1982.

The decrease of 136 associations, 2.2 percent fewer, largely reflected a continuing trend involving merger, consolidation, acquisition, or dissolution.

Of the 5,989 cooperatives, 3,647 primarily marketed farm products, 2,208 handled farm production supplies, and 134 provided related services.

Marketing cooperatives increased from 60.6 to 60.9 percent of the total number of cooperatives; farm supply cooperatives dropped from 37.5 to 36.9 percent; and related service cooperatives increased from 1.8 to 2.2 percent.

The percentage changes in table 1 are due to some extent to the

⁴Related services include trucking, storage, grinding, drying, artificial insemination, and similar services affecting the form, quality, or location of farm products and supplies handled by cooperatives. They do not include credit, electric, telephone, or other such services not directly related to marketing or purchasing activities.

reclassification of cooperatives because of changes in the function from which they derive the major portion of their dollar volume. The primary examples are marketing cooperatives whose major business became the sale of farm supplies, or farm supply cooperatives in which marketing took a dominant role.

In table 4, cooperatives are classified according to the business activity that consistently accounted for the largest percent of their dollar volume for 1983.

Minnesota had the most cooperatives with 673. Texas was second with 422, and North Dakota was third with 396.

Memberships

Memberships in marketing, farm supply, and related service cooperatives totaled 4,954,758 in 1983, a decrease of 3.5 percent from 5,135,774 (table 5 and fig. 5). The long-term trend has been one of decline, reflecting, in part, the decreasing number of farmers in the United States. Many farmers were members of more than one cooperative and each membership was counted. Total membership contains duplication that cannot be eliminated with current reporting methods.

During 1983, many artificial insemination cooperatives were included in the related service classification. The inclusion of these cooperatives accounted for a large increase in related service cooperatives' memberships.

Though many farmers maintained membership in more than one cooperative, almost 1 million members, or 19.5 percent, did not actively patronize their cooperatives.

Membership figures often vary widely from year to year for cooperatives participating in price stabilization programs, particularly for those handling cotton, peanuts, or tobacco.

Classification of members is affected also by the diversity of services offered by cooperatives. For example, a member may use a cooperative to market only one of the farm products handled by the cooperative, or a member may use a cooperative classified in the marketing group only for purchasing one or more types of production supplies. The member's business with the cooperative, therefore, may not be in the group that represents the cooperative's major business volume (which determines how the cooperative is classified in this report). The membership, however, will be included arbitrarily in that classification.

Minnesota continued to lead in memberships with 448,497 (table 4). Wisconsin was second with 319,284 and Iowa was third with 294,871.

Table 4—Cooperative numbers¹ and memberships, by major business activity and State, 1983²

State	Beans and peas, dry edible			Cotton and cotton products ³			Dairy products			Fruits and vegetables ³		
	Co-op hqts. in State	Member- ships ⁴	Co-op hqts. in State	Co-op hqts. in State	Member- ships ⁴	Co-op hqts. in State	Co-op hqts. in State	Member- ships ⁴	Co-op hqts. in State	Co-op hqts. in State	Member- ships ⁴	Member- ships ⁴
	<i>Number</i>											
Alabama.....			7		311	(5)		275	2		1,000	
Alaska.....						1		15				
Arizona.....			5		1,001	1		169	5		1,250	
Arkansas.....			21		1,868	1		910	7		1,044	
California.....	5	994	44		5,878	12		1,481	108		24,442	
Colorado.....	3	539	(5)		7	4		591	12		1,066	
Connecticut.....						(5)		526	1		8	
Delaware.....						(5)		173	1		1,261	
Florida.....			(5)		5	4		333	47		3,882	
Georgia.....						1		806	3		99	
Hawaii.....						2		20	6		411	
Idaho.....	1	900				1		1,133	2		2,321	
Illinois.....						8		3,666	4		63	
Indiana.....						2		3,300	1		163	
Iowa.....						14		9,980	1		12	
Kansas.....						1		1,981	1		23	
Kentucky.....						2		3,670	2		507	
Louisiana.....			8		1,162	2		1,013	5		284	
Maine.....						1		539	5		1,275	
Maryland.....						1		1,532	1		31	
Massachusetts.....						2		701	2		324	
Michigan.....	2	370				4		7,494	17		3,967	
Minnesota.....						90		36,113	1		62	

Mississippi.....	53	5,407	2	862	1	5
Missouri	(5)	23	2	4,450	(5)	22
Montana			2	755	2	236
Nebraska			1	1,928		
Nevada	(5)	6	2	59		
New Hampshire			(5)	270		
New Jersey.....			2	254	11	1,619
New Mexico.....	16	2,667			1	13
New York.....			82	8,527	8	1,493
North Carolina.....	2	595	2	623	12	2,099
North Dakota.....			5	1,843	1	105
Ohio.....			8	6,194	8	2,468
Oklahoma	47	19,383	(5)	1,121		
Oregon.....			6	1,360	13	1,659
Pennsylvania			22	9,321	9	2,010
Rhode Island.....			(5)	81		
South Carolina	1	426	1	175	4	67
South Dakota			3	2,371		
Tennessee.....	(5)	9	2	1,479	3	18
Texas	258	65,510	3	2,972	8	544
Utah.....			4	824	4	38
Vermont.....			6	2,900	1	290
Virginia.....	(5)	12	3	1,638	6	204
Washington			6	2,503	33	8,376
West Virginia			2	441	(5)	20
Wisconsin.....			81	34,882	2	775
Wyoming.....	1	1,195	(5)	64		
Foreign					(5)	57
United States.....	462	104,282	401	164,317	361	65,613

See end of table for footnote references.

Table 4—Cooperative numbers and memberships, by major business activity and State, 1983 —Continued

State	Rice ³			Sugar products ⁸			Tobacco		Wool and mohair		
	Co-op hqts. in State	Member- ships ⁴	Co-op hqts. in State	Co-op hqts. in State	Member- ships ⁴	Co-op hqts. in State	Member- ships ⁹	Co-op hqts. in State	Member- ships ⁴		
				<i>Number</i>							
Alabama			(⁵)		2	(⁵)		226			
Alaska											
Arizona			1		24	(⁵)					
Arkansas	23	21,691	(⁵)		2	(⁵)		16	34		
California.....	4	3,158	4		2,199	(⁵)		2	439		
Colorado.....			1		916	(⁵)		1	267		
Connecticut											
Delaware											
Florida			4		156	(⁵)		1	5		
Georgia.....			(⁵)		30	(⁵)		1	5		
Hawaii.....			2		306			(⁵)	1		
Idaho			2		2,444			22	1,228		
Illinois.....			(⁵)		1	(⁵)		2	116		
Indiana.....			(⁵)		6	(⁵)		(⁵)	2,505		
Iowa			1		33	(⁵)		2	6,049		
Kansas.....			(⁵)		205			(⁵)	2,519		
Kentucky								(⁵)	537		
Louisiana.....	12	1,483	11		811	7		2	450		
Maine								1	5		
Maryland						1		1	5		
Massachusetts						1		3	5		
Michigan.....			1		17	(⁵)		(⁵)	1,785		
Minnesota			3		1,533	(⁵)		2	4,505		

Mississippi.....	4	488	(5)	2	(5)	733	1	50
Missouri	(5)	73	(5)	2	(5)		1	984
Montana.....			4	573			26	1,689
Nebraska.....			2	1,032	(5)	1	1	3,323
Nevada			(5)	3			1	6
New Hampshire							1	755
New Jersey.....							1	300
New Mexico.....			(5)	4			1	67
New York.....							4	760
North Carolina.....			(5)	2	9	72,263	2	10
North Dakota.....			1	966			6	285
Ohio.....			2	410	1	4,695	1	4,921
Oklahoma.....							1	726
Oregon.....			1	245			(5)	1
Pennsylvania							22	4,348
Rhode Island.....								
South Carolina.....			(5)	1	1	17,028		
South Dakota.....			(5)	55			3	4,542
Tennessee.....					9	57,227		
Texas	14	2,715	2	949	(5)	2	8	2,626
Utah.....			(5)	3			1	400
Vermont.....								
Virginia.....			(5)	15	3	16,920	19	2,900
Washington					(5)		3	240
West Virginia			(5)	48	2	2,198	16	1,705
Wisconsin			3	405		2,007	1	1,966
Wyoming.....			(5)	7			7	1,338
Foreign								
United States.....	57	29,608	45	13,407	34	280,910	167	54,402

See end of table for footnote references.

Table 4—Cooperative numbers and memberships, by major business activity and State, 1983 —Continued

State	Grain, soybeans, and soybean meal and oil ⁶			Livestock and livestock products			Nuts ⁷		Poultry and poultry products		
	Co-op hqts. in State	Member- ships ⁴	Co-op hqts. in State	Co-op hqts. in State	Member- ships ⁴	Co-op hqts. in State	Co-op hqts. in State	Member- ships ⁴	Co-op hqts. in State	Member- ships ⁴	Co-op hqts. in State
<i>Number</i>											
Alabama	2	3,052	13		6,802		(5)		(5)	15,212	
Alaska											
Arizona	2	905	(5)		227	(5)		13	(5)	4	
Arkansas	6	17,020	4		749	(5)		67	(5)	2,336	
California	3	552	1		8,070	6		8,605	3	89	
Colorado	21	13,641	5		3,381						
Connecticut									(5)	9	
Delaware			(5)		18				(5)	3	
Florida									1	8,207	
Georgia			1		353	2		7,112	4	45,526	
Hawaii			1		16	1		47			
Idaho	12	16,676	6		2,501				(5)	3	
Illinois	151	85,412	5		39,410				(5)	13	
Indiana	41	80,628	3		33,852				(5)	4	
Iowa	210	108,074	8		15,900				(5)	2	
Kansas	190	151,840	1		705				(5)	14	
Kentucky	1	2,150	12		9,009				(5)	102	
Louisiana	6	917	2		235	(5)		10	(5)	19	
Maine									1	12	
Maryland			(5)		7				(5)	7	
Massachusetts			1		170				1	425	
Michigan	19	20,706	4		18,101				(5)	5	
Minnesota	192	117,021	132		55,089				2	84	

Mississippi	8	3,330	7	37,114	(5)	9	(5)	270
Missouri	21	24,782	8	14,472	(5)		(5)	13
Montana	34	19,702	1	917	(5)		(5)	1
Nebraska	140	91,433	5	4,926	1		1	6
Nevada	1	24						
New Hampshire							1	2
New Jersey			2	2,289			(5)	9
New Mexico	1	1,199	(5)	1,456	(5)	218	(5)	10
New York	(5)	1	4	30,771			2	57
North Carolina			3	1,844	1	15,560	(5)	609
North Dakota	227	88,721	15	9,693				
Ohio	84	61,148	5	27,493			(5)	6
Oklahoma	72	50,672	1	6,300	3	2,650	(5)	716
Oregon	9	4,981		423	1	310	1	39
Pennsylvania			8				(5)	51
Rhode Island							(5)	1
South Carolina	1	133	1	78	(5)	800	(5)	5,355
South Dakota	119	65,548	2	7,467	(5)			
Tennessee	(5)	300	4	656		447	(5)	8,118
Texas	58	22,472	2	2,569	2	4,007	(5)	535
Utah	3	6,059	1	4,555			4	142
Vermont							(5)	1
Virginia	4	1,917	15	4,398	1	4,200	1	533
Washington	32	11,694					(5)	2
West Virginia	(5)	1	7	1,014			(5)	106
Wisconsin	1	1,564	68	26,737			(5)	1
Wyoming	2	493	(5)	50				
Foreign			(5)	200				
United States	1,673	1,074,768	358	380,017	17	44,055	22	88,659

See end of table for footnote reference.

Table 4—Cooperative numbers and memberships, by major business activity and State, 1983—Continued

State	Miscellaneous marketing ¹⁰		Total marketing		Farm Supply		Related service ¹¹		Total	
	Co-op hqts. in State	Member-ships ⁴	Co-op hqts. in State	Member-ships ⁴	Co-op hqts. in State	Member-ships ⁴	Co-op hqts. in State	Member-ships ⁴		
Number										
Alabama.....			24	26,880	57	54,734	2	180	83	81,794
Alaska.....			1	15					1	15
Arizona.....			14	3,593	3	60,020	(⁵)	1	17	63,614
Arkansas.....			63	45,737	51	60,081	3	864	117	106,682
California.....	3	935	194	56,844	35	12,177	18	925	247	69,946
Colorado.....			47	20,408	29	18,345	1	5	77	38,758
Connecticut.....			1	1,608	3	1,668	1	35	5	3,311
Delaware.....			1	1,455	4	8,711			5	10,166
Florida.....	1	12	58	15,020	5	2,917	3	13,332	66	31,269
Georgia.....	1	300	13	67,174	10	6,258			23	73,432
Hawaii.....	4	713	16	1,514	5	1,331	2	83	23	2,928
Idaho.....	1	32	47	27,239	18	18,354			65	45,593
Illinois.....	2	118	172	128,809	99	150,909	8	3,833	279	283,551
Indiana.....	1	21	48	124,288	41	80,928	1	2,687	90	207,903
Iowa.....	1	485	237	140,538	124	154,083	1	250	362	294,871
Kansas.....	(⁵)	2	193	157,292	46	48,299			239	205,591
Kentucky.....			24	98,223	47	155,667	1	4,231	72	258,121
Louisiana.....			48	6,384	37	11,544	2	37	87	17,965
Maine.....			8	1,831	1	6,299			9	8,130
Maryland.....			4	5,742	21	43,169	4	2,634	29	51,545
Massachusetts.....			10	2,555	6	6,440	1	52	17	9,047
Michigan.....	4	121	51	52,568	54	57,657	3	4,301	108	114,526
Minnesota.....	2	194	424	214,607	238	231,670	11	2,220	673	448,497

Mississippi	2	10	78	47,538	69	68,167	4	748	151	116,453
Missouri			32	45,563	77	196,347	4	2,354	113	244,264
Montana			69	23,873	66	29,336			135	53,209
Nebraska	1	18	151	102,667	94	98,937	3	8	248	201,612
Nevada			4	98	(5)	85			4	183
New Hampshire			2	1,027	(5)	960			2	1,987
New Jersey	1	40	17	4,511	6	5,428	1	567	24	10,506
New Mexico	(5)			5,635	(5)	5				
New York	1	28	101	41,637	115	66,900	1	300	20	5,940
North Carolina			31	93,605	2	40,017	4	1,077	220	109,614
North Dakota			255	101,613	138	61,598	3	75	36	133,697
Ohio	1	11	110	107,348	52	41,695	3	10	396	163,221
Oklahoma			124	81,568	18	12,344	5	473	167	149,516
Oregon	1	30	32	8,625	19	30,374	1	659	143	94,571
Pennsylvania			61	16,153	23	32,951	1	35	52	39,034
Rhode Island			(5)	82	(5)	346	4	19,956	88	69,060
South Carolina			9	24,063	1	15,376	1	30	1	458
South Dakota	1	48	128	80,031	104	71,868	1		10	39,439
Tennessee	1	100	19	68,354	85	79,988	1	34	233	151,933
Texas	2	26	349	102,299	64	24,552	2	10	106	148,352
Utah	2	185	26	14,434	11	8,060	9	884	422	127,735
Vermont			8	3,591	1	2,368	2	10	39	22,504
Virginia			52	32,722	1	8	1	26	10	5,985
Washington	4	155	78	22,986	56	130,771	2	3,514	110	167,007
West Virginia			25	5,485	50	54,426	2	155	130	77,567
Wisconsin	1	9	156	67,989	20	60,519	(5)	500	45	66,504
Wyoming			13	3,545	194	223,781	18	27,514	368	319,284
Foreign			(5)	264	9	4,059			22	7,604
United States	38	3,594	3,647	2,307,630	2,208	2,552,519	134	94,609	(5)	264
									5,989	4,954,758

See next page for footnote references.

Footnotes to table 4.

¹Includes independent local cooperatives, federations, centralized cooperatives, and cooperatives with mixed organizational structures.

²Data covering operations of cooperatives for calendar year 1983.

³Cooperatives performing specific services related to a commodity are included. Incorporated local associations of a federation that performs the actual marketing or processing are counted.

⁴Includes members (those entitled to vote for directors) but does not include nonvoting patrons. (Some duplication in these membership figures occurs because many farmers belong to more than one cooperative.) Totals may not add due to rounding.

⁵The cooperative with which this membership is affiliated has been counted in the State in which the cooperative maintains its headquarters. (Foreign members of U.S. headquartered cooperatives are in Canada and Mexico).

⁶Includes soybean marketing and processing.

⁷Membership of nut cooperatives that market peanuts fluctuates from year to year and is affected by the extent to which producers participate in price stabilization programs.

⁸Includes sugar, sugarcane, sugar beets, honey, maple syrup, molasses, and sorghum.

⁹Member-patrons. Number fluctuates considerably from year to year due to participation in price stabilization programs.

¹⁰Includes forest products, hay, hops, nursery stock, coffee, and other farm products not separately classified.

¹¹Cooperatives providing services related to marketing or purchasing activities.

Figure 5

Memberships in Farmer Cooperatives

Millions

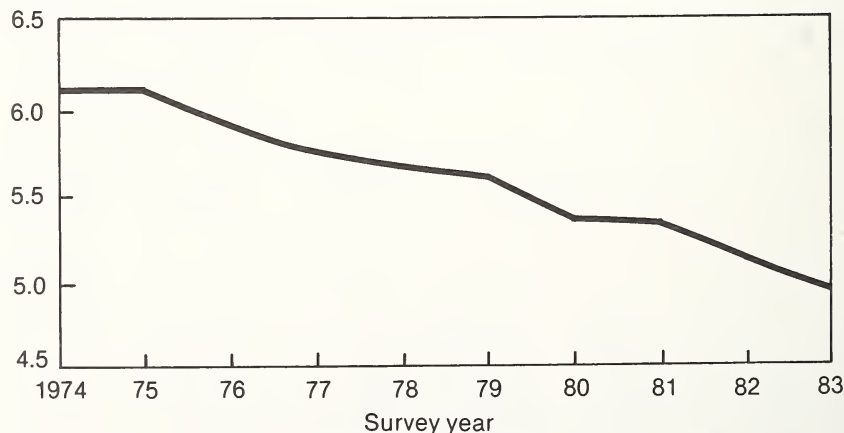


Table 5 — Memberships in predominantly marketing, farm supply, and related service cooperatives, selected years

Period ¹	Marketing		Farm supply		Related service		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
1950-51	4,117,950	58.1	2,878,890	40.6	94,280	1.3	7,091,120	100.0
1955-56	4,223,260	54.6	3,443,610	44.6	64,865	0.8	7,731,735	100.0
1960-61	3,473,425	48.2	3,679,675	51.1	49,795	0.7	7,202,895	100.0
1961-62	3,420,100	48.2	3,634,690	51.2	44,190	0.6	7,098,980	100.0
1962-63	3,582,110	49.6	3,595,890	49.8	40,750	0.6	7,218,750	100.0
1963-64	3,612,535	51.0	3,425,200	48.4	41,765	0.6	7,079,500	100.0
1964-65	3,790,915	53.5	3,250,840	45.9	40,255	0.6	7,082,010	100.0
1965-66	3,635,605	53.3	3,154,490	46.2	36,180	0.5	6,826,275	100.0
1966-67	3,298,435	50.7	3,168,985	48.8	34,280	0.5	6,501,700	100.0
1967-68	3,225,185	50.0	3,186,640	49.5	33,585	0.5	6,445,410	100.0
1968-69	3,141,245	49.4	3,189,460	50.1	32,850	0.5	6,363,555	100.0
1969-70	3,102,745	48.8	3,222,435	50.7	29,800	0.5	6,354,980	100.0
1970-71	3,105,005	50.4	3,027,515	49.2	25,220	0.4	6,157,740	100.0
1971-72	3,133,505	51.0	2,991,240	48.7	21,805	0.3	6,146,550	100.0
1972-73	3,117,980	50.9	2,988,050	48.8	21,905	0.3	6,127,935	100.0
1973-74	3,111,255	51.0	2,972,455	48.7	21,820	0.3	6,105,530	100.0
1974-75	3,126,500	51.1	2,971,400	48.5	24,600	0.4	6,122,500	100.0
1975-76	2,811,858	47.6	3,056,071	51.7	38,450	0.7	5,906,379	100.0
1976-77	2,655,018	46.1	3,066,023	53.3	36,687	0.6	5,757,728	100.0
1978 ²	2,595,000	45.6	3,063,000	53.8	36,500	0.6	5,694,500	100.0
1979	2,530,733	45.0	3,060,020	54.4	36,443	0.6	5,627,196	100.0
1980	2,541,995	47.3	2,804,482	52.1	32,411	0.6	5,378,888	100.0
1981	2,452,219	46.0	2,855,963	53.5	27,236	0.5	5,335,418	100.0
1982	2,444,325	47.6	2,666,375	51.9	25,074	0.5	5,135,774	100.0
1983 ³	2,307,630	46.6	2,552,519	51.5	494,609	1.9	4,954,758	100.0

¹For years before 1950-51, see appendix table 6, FCS General Report 128 in libraries.

²Previously, data for farmer cooperatives were reported on a fiscal year basis. Beginning in 1978, data are included for the calendar year. Data for 1978 are estimated.

³Preliminary.

⁴Number of memberships were up significantly due to inclusion of additional related service cooperatives.

Business Volume

Total gross business volume of 5,989 marketing, farm supply, and related service cooperatives amounted to \$88.7 billion (table 6), a 6.7-percent decrease from \$95.1 billion.

Total net business volume of farmer cooperatives amounted to \$66.8 billion. This amount included \$49.3 billion for farm products marketed, \$15.9 billion for farm supplies purchased, and \$1.5 billion for services performed. The total net figure of \$66.8 billion, which excludes intercooperative business (the difference between gross and net business volumes), represented a decrease of 3.5 percent from \$69.2 billion. However, discounting for price changes, the real drop in business volume was estimated to be 5.5 percent.⁵ Intercooperative business dropped to \$22 billion from \$25.9 billion.

Gross and net volumes of business for marketing, purchasing, and related service activities are shown in table 6 for selected years from fiscal 1951 through calendar 1983. Both gross and net volumes were less than for the previous 2 years.

Gross volume of farm products marketed by cooperatives decreased from \$65.6 billion to \$61.2 billion, a decrease of 6.7 percent. The net volume of farm products marketed amounted to \$49.3 billion and accounted for 73.9 percent of the total net volume of cooperatives. The net marketing volume represented a decrease of 4 percent from \$51.4 billion. The decline resulted primarily from decreases in the dollar volumes reported for grain, soybeans, soybean meal and oil.

Figure 6 illustrates the leading products marketed by cooperatives based on net marketing business volume. Dairy products led with 34 percent of total net marketing volume, followed by grain, soybeans, and soybean meal and oil and livestock products.

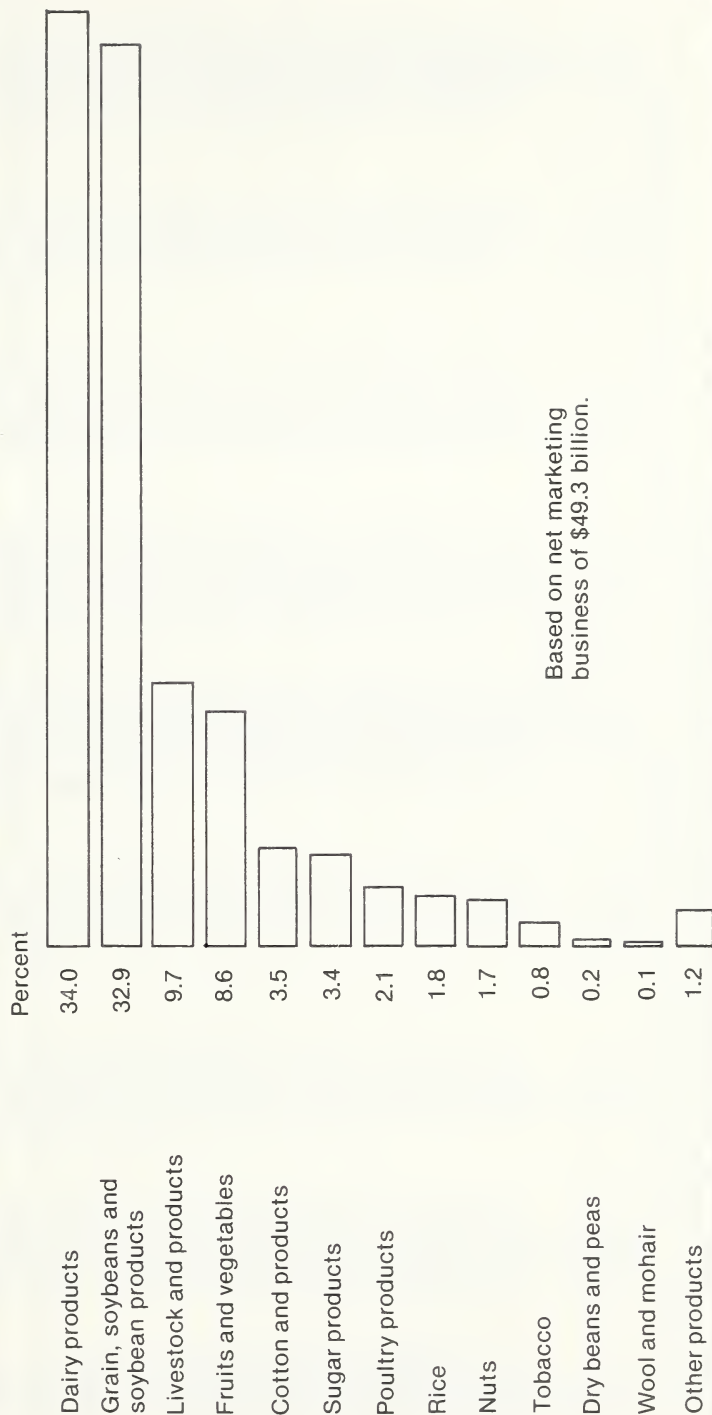
Gross volume of all farm supplies handled by cooperatives amounted to \$26.1 billion, a 7.3-percent decrease from \$28.1 billion. The net farm supply volume of \$15.9 billion accounted for 23.9 percent of the total net business volume, a 2.6-percent decrease from \$16.4 billion. Decreases in net volumes of fertilizer, petroleum products, and farm chemicals largely accounted for this decline.

As shown in figure 7, leading farm supplies handled by cooperatives in terms of net business volume were petroleum products, with 34.1 per-

⁵By deflating the volume of farm products handled by cooperatives in 1983 by indices of producer prices for farm products and processed foods and feeds and the volume of farm supplies and related services by the index on prices paid by farmers for production of all commodities excluding interest, taxes, and wage rates, total business volume amounted to \$65.4 billion, a 5.5-percent decrease from the 1982 volume.

Figure 6

Relative Importance of Major Farm Products Marketed by Cooperatives, 1983



Period ¹	Gross volume (includes intercooperative business)			Net volume (excludes intercooperative business)				
	Farm products	Farm supplies	Related services ²	Total	Farm products	Farm supplies	Related services ²	Total
	Percent							
1950-51	75.9	23.2	0.9	100.0	78.1	20.7	1.2	100.0
1955-56	74.9	23.4	1.7	100.0	76.8	21.0	2.2	100.0
1960-61	75.0	23.1	1.9	100.0	77.6	19.9	2.5	100.0
1961-62	75.5	22.7	1.8	100.0	78.0	19.7	2.3	100.0
1962-63	75.7	22.6	1.7	100.0	78.3	19.5	2.2	100.0
1963-64	75.5	22.9	1.6	100.0	78.1	19.7	2.2	100.0
1964-65	75.5	22.9	1.6	100.0	78.1	19.8	2.1	100.0
1965-66	75.1	23.3	1.6	100.0	78.1	19.8	2.1	100.0
1966-67	74.3	24.3	1.4	100.0	77.9	20.2	1.9	100.0
1967-68	73.8	24.8	1.4	100.0	77.4	20.8	1.8	100.0
1968-69	73.8	24.7	1.5	100.0	77.2	20.8	2.0	100.0
1969-70	74.2	24.2	1.6	100.0	77.7	20.3	2.0	100.0
1970-71	73.8	24.7	1.5	100.0	76.9	21.1	2.0	100.0
1971-72	72.6	25.8	1.6	100.0	76.0	21.9	2.1	100.0
1972-73	72.9	25.7	1.4	100.0	75.3	22.8	1.9	100.0
1973-74	74.7	23.9	1.4	100.0	76.2	21.9	1.9	100.0
1974-75	74.0	24.6	1.4	100.0	77.3	20.9	1.8	100.0
1975-76	70.6	27.9	1.5	100.0	74.4	23.5	2.1	100.0
1976-77	68.6	29.9	1.5	100.0	73.7	24.2	2.1	100.0
1978 ³	69.7	28.8	1.5	100.0	74.6	23.4	2.0	100.0
1979	69.3	29.3	1.4	100.0	74.1	24.0	1.9	100.0
1980	68.8	29.9	1.3	100.0	73.8	24.4	1.8	100.0
1981	69.1	29.7	1.2	100.0	74.5	23.8	1.7	100.0
1982	69.0	29.5	1.5	100.0	74.3	23.7	2.0	100.0
1983 ⁴	69.0	29.4	1.6	100.0	73.9	23.9	2.2	100.0

¹For years prior to 1950-51, see appendix table 7, FCS General Report 128, in libraries. Data for prior years are not entirely comparable due to revisions in statistical procedures in 1950-51.

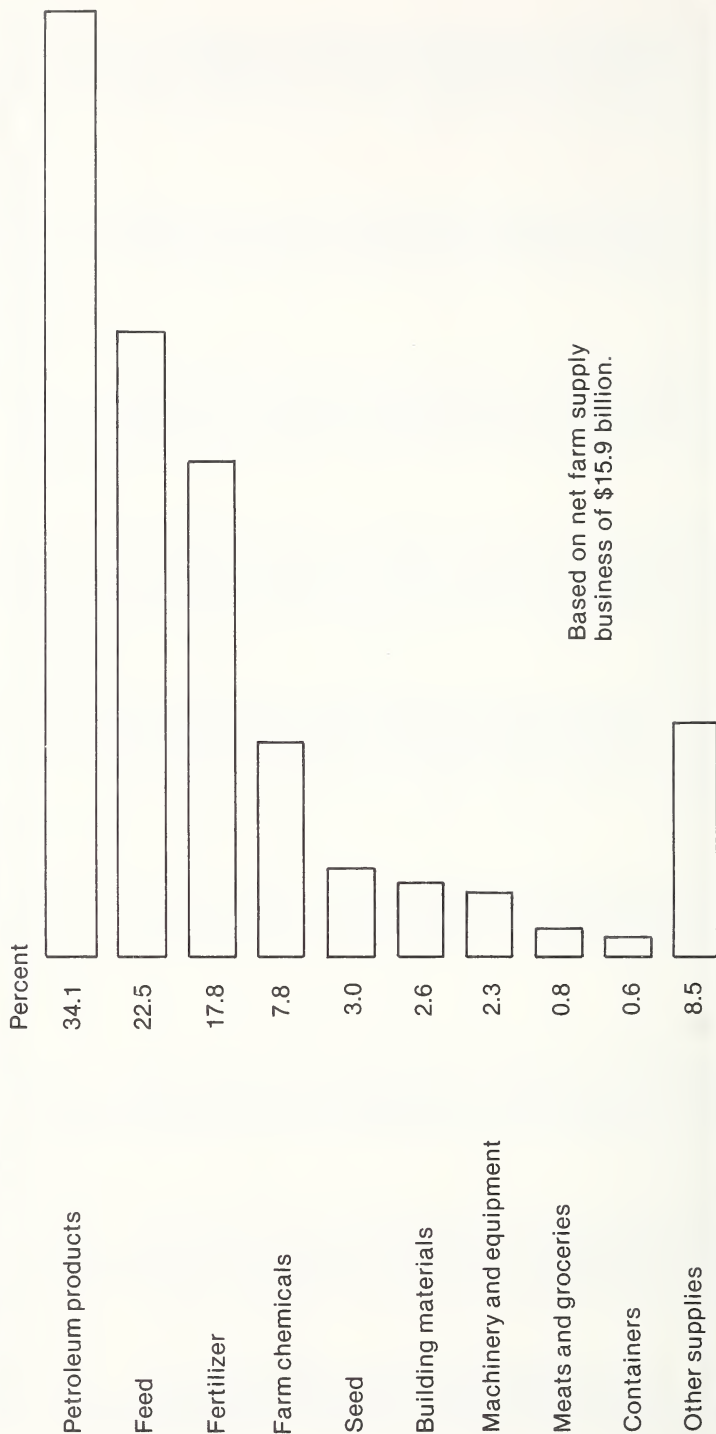
²Services related to marketing or supply purchasing but not included in the volumes reported for these activities.

³Previously, data for farmer cooperatives were reported on a fiscal year basis. Beginning in 1978, data are included for the calendar year. Data for 1978 are estimated.

⁴Preliminary.

Figure 7

Relative Importance of Major Farm Supplies Handled by Cooperatives, 1983



cent of the total, followed by feed and fertilizer.

Receipts for services performed by all types of cooperatives amounted to \$1.5 billion, a 5.3-percent increase. Service receipts represented 2.2 percent of total net business volume.

An estimated 69.7 percent of the 5,989 cooperatives, or 4,173 cooperatives, marketed farm products (table 7). Farm supplies were handled by 4,558 cooperatives, 76.1 percent of the total, while 4,129 cooperatives, or 68.9 percent of the total, performed one or more services related to farm product marketing and farm supply purchasing.

Volume of farm products marketed and farm supplies purchased by cooperatives is shown by State in table 8.

Balance Sheet

Combined assets for all farmer cooperatives totaled \$28.8 billion, up almost 1 percent from \$28.6 billion (table 9 and fig. 8). Assets of cooperatives, eliminating intercooperative investments, totaled \$25.9 billion a slight increase from \$25.8 billion.

Total liabilities were \$17.3 billion, down slightly from the \$17.4 billion. Net worth, or member and patron equity, was \$11.5 billion, up 3.4 percent from \$11.2 billion. The proportion of total assets financed by equity went up from 39.1 to 40 percent.

Of the \$28.8 billion in total assets, marketing cooperatives accounted for nearly \$17.7 billion, up 3.4 percent from \$17.2 billion (table 10). Cooperatives whose principal products were grain, soybeans, and soybean meal and oil had total assets of more than \$6.8 billion, a 3.8-percent increase from \$6.6 billion. These cooperatives also maintained the largest proportion of investment in other cooperatives in both 1983 (14.6 percent) and 1982 (14.2 percent).

Assets of marketing cooperatives, excluding investments in other cooperatives, were \$16.2 billion, up from \$15.7 billion.

Farm supply cooperatives had total assets of \$10.8 billion, down from \$11.3 billion. Excluding intercooperative investments, assets amounted to \$9.4 billion, down 6.4 percent.

Current and term liabilities of marketing cooperatives totaled nearly \$10.8 billion, up from \$10.6 billion. This represented more than half (62.7 percent) of total liabilities for all cooperatives, compared with 60.1 percent in 1982. Grain marketing cooperatives showed more than \$3.6 billion, a 4.4-percent increase. Combined liabilities financed 60 percent of total cooperative assets.

Net worth or member and patron equity for all marketing cooperatives totaled more than \$6.9 billion, up from \$6.7 billion. Marketing

Table 7—Cooperative business volume by commodity, 1983¹

Commodity	Cooperatives handling		Gross volume (includes inter-cooperative business)		Net volume (excludes inter-cooperative business)	
	No.	Pct. ²	1,000 dol.	Pct.	1,000 dol.	Pct.
Products marketed:						
Beans and peas (dry edible).....	52	0.9	112,533	0.1	81,585	0.1
Cotton and cotton products	487	8.1	2,029,445	2.3	1,721,544	2.6
Dairy products	418	7.0	19,067,092	21.5	16,765,593	25.1
Fruits and vegetables	394	6.6	5,757,936	6.5	4,241,335	6.4
Grain, soybeans, and soybean meal and oil.....	2,275	38.0	23,411,305	26.4	16,217,999	24.3
Livestock and livestock products.....	402	6.7	5,092,689	5.7	4,767,955	7.1
Nuts.....	35	0.6	826,704	0.9	826,704	1.2
Poultry products	63	0.1	1,149,050	1.3	1,043,177	1.6
Rice	62	1.0	864,722	1.0	864,722	1.3
Sugar products	47	0.8	1,699,996	1.9	1,682,481	2.5
Tobacco	35	0.6	393,605	0.4	393,605	0.6
Wool and mohair.....	181	3.0	50,454	0.1	29,183	(³)
Miscellaneous ⁴	102	1.7	753,881	0.8	707,670	1.1
Total farm products.....	54,173	69.7	61,209,412	70.0	49,343,552	73.9
Supplies purchased:						
Building materials.....	1,887	31.5	519,594	0.6	408,759	0.6
Containers and packaging supplies.....	520	8.7	288,242	0.3	96,850	0.1
Farm chemicals.....	3,407	56.9	2,104,221	2.4	1,250,216	1.9
Farm machinery and equipment	1,690	28.2	531,897	0.6	363,462	0.5
Feed.....	3,295	55.0	4,970,839	5.6	3,594,064	5.4
Fertilizer.....	3,442	57.5	5,158,449	5.8	2,837,204	4.3

Meats and groceries.....	436	7.3	151,157	0.2	123,711	0.2
Petroleum products.....	2,742	45.8	9,761,521	11.0	5,433,841	8.1
Seed.....	3,318	55.4	684,940	0.8	483,081	0.7
Miscellaneous supplies ⁶	3,922	65.5	1,881,924	2.1	1,351,768	2.0
Total farm supplies.....	54,558	76.1	26,052,783	29.4	15,942,957	23.9
Services provided:						
Trucking, cotton ginning, storage, grinding, locker plants, miscellaneous.....	54,129	68.9	71,468,316	1.7	71,468,316	2.2
Total business.....	55,989	100.0	88,730,512	100.0	66,754,824	100.0

¹Preliminary. Totals may not add due to rounding.

²Number of cooperatives handling each commodity group is computed as a percentage of the total number of 5,989 cooperatives listed.

³Less than one-tenth of one percent.

⁴Includes coffee, fish, forest products, hay, hops, seed marketed for growers, nursery stock, other farm products not separately classified, and sales of farm products not received directly from member-patrons.

⁵Because many cooperatives do more than one type of business, these totals are fewer than the number obtained by adding the number of cooperatives handling individual items or performing individual services.

⁶Includes plant equipment, automotive supplies, hardware, chicks, and other supplies not separately classified.

⁷Charges for services related to marketing or purchasing but not included in the volume reported for those activities.

Table 8—Cooperative business volume¹ by commodity and State, 1983²

State	Beans and peas—dry edible		Cotton and cotton products		Dairy products		Fruits and vegetables	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net
	<i>1,000 dollars</i>							
Alabama			20,097	19,889	68,329 ⁽³⁾	66,843 ⁽³⁾	(³)	(³)
Alaska								
Arizona			207,142	206,907	197,059	196,954	110,965	27,489
Arkansas			80,183	59,396	130,931	126,712	15,984	15,984
California	19,715	19,715	684,241	561,624	1,502,651	1,397,324	2,150,380	1,512,302
Colorado	6,438	4,073			145,200	144,778	25,103	12,684
Connecticut					83,828	72,931	(³)	(³)
Delaware					18,763	18,649	2,726	2,726
Florida					344,721	336,251	1,127,727	642,405
Georgia					274,926	269,770	28,381	14,164
Hawaii					(³)	(³)	17,165	12,919
Idaho	7,342 ⁽³⁾	7,342 ⁽³⁾			231,265	199,680	(³)	(³)
Illinois					561,351	554,979	4,354	4,354
Indiana					219,373	211,831	23,465	18,431
Iowa					612,644	594,135	25,371	14,045
Kansas	(³)	(³)			222,795	219,630	2,537	2,537
Kentucky					255,445	248,093	(³)	(³)
Louisiana			57,354	45,369	197,067	195,767	116	116
Maine					24,327	22,032	7,618	7,618
Maryland					279,422	261,729	1,816	1,816
Massachusetts					85,832	76,081	(³)	(³)
Michigan	60,338	32,893 ⁽³⁾			784,790	696,372	277,763	197,964
Minnesota	(³)	(³)			2,184,118	1,820,602	6,242	6,242

Mississippi		326,989	313,952	102,349	95,582	(³)
Missouri		2,945	2,172	496,950	492,592	477
Montana	1,656			36,122	30,265	(³)
Nebraska	19			151,776	151,249	
Nevada		336	336	18,002	18,002	
New Hampshire				27,145	23,704	
New Jersey				60,038	43,358	96,899
New Mexico	(³)	17,045	15,642			(³)
New York	(³)		(³)	1,297,784	887,315	194,343
North Carolina				143,488	139,424	10,197
North Dakota	351			144,730	123,534	(³)
Ohio				880,832	880,832	28,674
Oklahoma	183	70,029	45,567	180,457	174,127	757
Oregon	(³)			259,870	164,709	292,343
Pennsylvania				1,198,842	933,388	201,905
Rhode Island				(³)	(³)	187,744
South Carolina		3,311	3,311	45,184	44,084	3,538
South Dakota				200,884	149,200	
Tennessee		1,487	1,211	294,973	284,581	270
Texas		550,849	438,730	470,597	452,665	14,800
Utah				195,051	194,038	3,515
Vermont				266,804	251,892	(³)
Virginia				355,401	345,009	13,670
Washington	6,567			827,941	340,935	566,369
West Virginia				22,699	22,021	5,359
Wisconsin				2,918,684	2,743,454	151,991
Wyoming	1,885	935		21,547	21,547	
Foreign ⁴						38,422
United States	112,533	81,585	1,721,544	19,067,092	16,765,593	5,757,936
		2,029,445				4,241,335

See end of table for footnote references.

Table 8—Cooperative business volume¹ by commodity and State, 1983²—Continued

State	Grain, soybeans, and soybean meal and oil		Livestock and livestock products		Nuts		Poultry and poultry products	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net
<i>1,000 dollars</i>								
Alabama	163,980	109,724	23,701	23,701	64,192	64,192	213,236	213,236
Alaska								
Arizona	(³)	(³)	20,573	20,573	12	12		
Arkansas	333,413	315,672	6,001	6,001	116	116	11,739	11,739
California	28,463	28,463	94,114	94,114	428,474	428,474	27,887	27,887
Colorado	316,818	238,716	170,498	170,497				
Connecticut								
Delaware	19,905	19,905	463	463			6,160	6,160
Florida	27,953	26,556			13,726	13,726	82	82
Georgia	(³)	(³)	22,532	22,532	225,812	225,812	91,081	89,301
Hawaii			(³)	(³)	1,968	1,968	289,877	289,877
Idaho	135,772	117,137	22,654	22,654				
Illinois	3,083,506	2,280,903	569,946	557,815			(³)	(³)
Indiana	1,236,406	947,589	169,663	166,944			20,378	3,067
Iowa	3,905,878	2,479,304	1,104,373	1,101,539			18,420	18,420
Kansas	2,127,111	1,391,903	76,514	76,514			147	147
Kentucky	114,707	76,986	62,432	62,115			98	98
Louisiana	106,932	63,229	151	151	31	31	147	147
Maine	(³)	(³)					2,478	2,478
Maryland	60,568	44,948	315	315	422	422	341	341
Massachusetts			(³)	(³)			2,745	2,745
Michigan	282,301	182,089	395,353	390,500			(³)	(³)
Minnesota	2,582,430	1,646,340	317,968	246,083			106,088	73,504

Mississippi.....	241,705	206,068	59,739	5,033	5,033	999	999
Missouri	1,266,106	740,428	285,847			196	196
Montana	230,539	144,691	7,023				
Nebraska	1,221,737	988,462	530,538			14,760	5,595
Nevada	(³)	(³)				1,800	1,800
New Hampshire.....						564	564
New Jersey	8,715	8,715	(³)			840	840
New Mexico.....	14,600	9,751	17,634	504	504		
New York.....	80,708	57,142	63,338			26,432	26,351
North Carolina.....	(³)	(³)	7,599	13,771	13,771	63,926	62,388
North Dakota.....	1,462,930	1,094,279	24,787			(³)	(³)
Ohio	1,489,919	827,950	296,420			27,371	27,048
Oklahoma	551,766	326,999	(³)	5,776	5,776	98	98
Oregon.....	120,440	117,074		14,491	14,491	21,115	10,932
Pennsylvania	10,045	10,045	7,326			21,784	21,622
Rhode Island.....						(³)	(³)
South Carolina.....	47,668	46,270	(³)	19,726	19,726	6,784	6,784
South Dakota.....	732,082	536,111	116,865				
Tennessee.....	86,465	47,039	1,559			288	207
Texas	602,737	405,096	51,749	7,579	7,579	441	441
Utah.....	7,608	6,627	(³)			46,084	13,499
Vermont.....	(³)	(³)	(³)				
Virginia.....	82,482	82,482	30,388	25,397	25,397	55,611	55,611
Washington	348,510	348,510	(³)	(³)	(³)		
West Virginia			6,577			32,569	32,569
Wisconsin	81,593	61,712	386,443			18,096	18,096
Wyoming.....	2,699	2,699	2,068				
Foreign ⁴	9,633	2,899					
United States.....	23,411,305	16,217,999	5,092,689	826,704	826,704	1,149,050	1,043,177

See end of table for footnote references.

Table 8—Cooperative business volume¹ by commodity and State, 1983²

State	Rice		Sugar products		Tobacco		Wool and mohair	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net
<i>1,000 dollars</i>								
Alabama.....								
Alaska.....								
Arizona.....			953	953			88	88
Arkansas.....	364,498	364,498					24	24
California.....	270,411	270,411	637,500	619,987			4,562	2,126
Colorado.....			21,905	21,905			699	699
Connecticut.....					83	83		
Delaware.....								
Florida.....			148,950	148,950	3,416	3,416	(³)	(³)
Georgia.....			1,023	1,023	11,954	11,954	(³)	(³)
Hawaii.....			(⁵)	(⁵)			22	22
Idaho.....			84,408	84,408			808	808
Illinois.....			(³)	(³)			(³)	(³)
Indiana.....			(³)	(³)			222	222
Iowa.....			(³)	(³)	1,274	1,274	4,544	2,613
Kansas.....			3,186	3,186			881	881
Kentucky.....					108,500	108,500	82	82
Louisiana.....			106,199	106,199			(³)	(³)
Maine.....	51,536	51,536					85	1
Maryland.....					(³)	(³)	(³)	(³)
Massachusetts.....			(³)	(³)	(³)	(³)	(³)	(³)
Michigan.....			336,971	336,971			336	336
Minnesota.....					54	54	4,116	2,057

Mississippi	4,414	7,129	7,129	744	744	(³)	(³)
Missouri	5,935						137
Montana		33,657	33,657				1,181
Nebraska		45,369	45,369				2,334
Nevada		578	578				229
New Hampshire							112
New Jersey							(³)
New Mexico							773
New York			(³)				314
North Carolina				173,221	173,221	(³)	(³)
North Dakota		159,082	159,082				86
Ohio		13,424	13,424	839	839		3,615
Oklahoma							759
Oregon		(³)	(³)				22
Pennsylvania							332
Rhode Island							
South Carolina				18,583	18,583		
South Dakota		7,736	7,736				14,315
Tennessee				29,815	29,815		8,137
Texas	167,929	42,058	42,058				
Utah							4,696
Vermont							(³)
Virginia				32,115	32,115		655
Washington		1,023	1,023				84
West Virginia				403	403		298
Wisconsin				(³)	(³)		553
Wyoming		5,204	5,204				553
Foreign ⁴							
United States	864,722	1,699,996	1,682,481	393,605	393,605		29,183
							50,454

See end of table for footnote references.

Table 8—Cooperative business volume¹ by commodity and State, 1983²—Continued

State	Miscellaneous marketing ⁶		Total farm products marketed		Building materials		Containers and packaging supplies	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net
<i>1,000 dollars</i>								
Alabama	2,063	2,063	555,647 ⁽³⁾	499,696 ⁽³⁾	3,207 ⁽³⁾	3,152 ⁽³⁾	382	382
Alaska								
Arizona			547,504	463,688	1,499	612	8,072	623
Arkansas			942,889	900,140	6,287	5,468	1,913	1,911
California	54,707	54,707	5,903,104	5,017,133	11,983	9,639	70,340	14,871
Colorado	3,713	3,573	690,375	596,926	4,270	2,956	1,879	771
Connecticut			90,572	79,674	5,035	3,286	135	98
Delaware			41,940	41,825	3,474	2,100	103	88
Florida	12,796 ⁽³⁾	12,796 ⁽³⁾	1,770,371	1,273,400	1,142	1,083	126,210	17,352
Georgia			994,878	968,516	4,092	3,399	795	795
Hawaii	2,651 ⁽³⁾	2,651 ⁽³⁾	30,937	26,691	492	146	702	568
Idaho			561,894	511,674	2,110	2,041	170	170
Illinois	12,450	12,450	4,234,485	3,413,379	23,093	16,145	1,483	1,483
Indiana	26	26	1,670,807	1,349,385	27,829	21,373	185	95
Iowa	1,767	1,767	5,674,531	4,213,357	67,398	60,069	1,005	876
Kansas	2,060	2,060	2,435,231	1,696,859	18,202	13,852	161	161
Kentucky			541,897	496,506	8,648	5,471	135	135
Louisiana			519,621	462,632	3,070	1,611	413	413
Maine	⁽³⁾	⁽³⁾	36,758	34,380	6,589	4,490	2,245	2,201
Maryland	⁽³⁾	⁽³⁾	350,336	316,942	6,834	4,223	177	64
Massachusetts			261,149	251,399	8,301	5,503	1,033	966
Michigan	7,669	7,669	1,818,555	1,517,829	12,028	11,524	4,533	2,311
Minnesota	24,568	24,568	5,562,556	4,156,421	32,027	30,214	2,455	2,285

Mississippi.....	26	741,291	689,851	7,230	3,040	1,395	1,395
Missouri.....	(3)	2,066,482	1,533,246	15,212	9,920	374	177
Montana.....		311,725	219,775	5,731	5,668	173	173
Nebraska.....	12,500	1,981,322	1,736,066	18,702	15,042	171	123
Nevada.....	(3)	23,120	23,120	136	128	(3)	(3)
New Hampshire.....		27,821	24,379	2,011	1,311	54	39
New Jersey.....	(3)	174,807	158,127	9,451	6,648	4,721	4,662
New Mexico.....	1,804	56,361	50,108	84	46	460	460
New York.....	(3)	1,671,501	1,200,891	32,508	21,952	2,990	2,799
North Carolina.....	(3)	447,084	440,732	4,177	3,018	574	574
North Dakota.....	195	1,797,655	1,403,326	29,649	29,181	561	561
Ohio.....	428	2,741,522	2,076,278	11,110	8,398	1,760	1,760
Oklahoma.....	661	879,513	623,842	7,352	5,729	1,292	1,098
Oregon.....	5,898	758,286	649,576	2,311	2,212	5,070	4,964
Pennsylvania.....		1,440,235	1,160,458	34,734	22,521	3,710	2,486
Rhode Island.....	(3)	(3)	(3)	(3)	(3)	(3)	(3)
South Carolina.....	113	145,691	141,693	517	514	158	158
South Dakota.....	1,215	1,073,098	818,041	14,714	13,649	81	81
Tennessee.....	(3)	414,863	364,688	17,232	16,379	501	476
Texas.....	2,230	1,956,418	1,583,276	5,903	4,079	13,920	12,206
Utah.....	(3)	314,628	275,284	3,069	3,064	194	23
Vermont.....		275,565	260,653	7,015	4,566	559	508
Virginia.....	4,939	600,658	590,266	15,199	8,781	154	154
Washington.....	10,540	1,761,248	1,194,758	5,147	4,664	23,793	12,459
West Virginia.....	(3)	67,933	67,254	2,423	1,524	40	40
Wisconsin.....	(3)	3,563,968	3,146,115	8,093	6,644	813	663
Wyoming.....	124	34,080	33,006	896	756	(3)	(3)
Foreign ⁴	571,695	619,750	564,682	63	2		
United States.....	753,881	61,209,412	49,343,552	519,594	408,759	288,242	96,850

See end of table for footnote references.

Table 8—Cooperative business volume¹ by commodity and State, 1983²—Continued

State	Farm chemicals			Farm machinery and equipment			Feed		Fertilizer	
	Gross	Net		Gross	Net		Gross	Net	Gross	Net
	<i>1,000 dollars</i>									
Alabama	35,753	21,943		5,663 ⁽³⁾	5,655 ⁽³⁾		104,678 ⁽³⁾	93,182 ⁽³⁾	123,503 ⁽³⁾	80,545 ⁽³⁾
Alaska										
Arizona	398	260		83			6,669	3,199	1,205	224
Arkansas	58,682	34,338		19,721	7,324		85,348	54,440	124,551	73,043
California	36,788	26,373		8,198	5,448		136,753	126,931	46,105	34,275
Colorado	17,227	7,779		7,572	4,933		61,757	44,106	53,287	34,305
Connecticut	5,138	2,498		2,370	1,564		60,976	49,663	6,460	3,518
Delaware	5,197	3,118		1,911	1,317		13,485	7,946	18,508	10,529
Florida	21,247	14,645		7,993	2,723		83,554	81,244	74,090	34,878
Georgia	27,751	21,529		5,119	5,062		132,006	130,591	73,393	68,840
Hawaii	1,111	695		204	84		3,873	3,775	3,092	1,647
Idaho	13,703	7,702		2,249	998		17,225	12,242	49,724	20,627
Illinois	225,007	128,859		34,024	18,838		186,742	131,267	452,415	242,777
Indiana	94,617	53,497		9,418	9,083		121,640	81,924	222,777	121,582
Iowa	247,070	147,235		34,834	19,946		548,453	354,283	685,791	279,709
Kansas	68,307	38,368		26,430	17,524		260,988	198,991	194,393	137,071
Kentucky	24,245	18,527		8,954	7,446		58,180	42,387	76,424	39,229
Louisiana	38,334	21,695		7,108	3,012		32,132	20,695	71,372	40,001
Maine	8,338	5,170		5,342	4,374		38,108	22,270	15,575	8,954
Maryland	20,211	13,424		10,747	8,819		44,828	31,019	51,054	32,434
Massachusetts	9,370	5,105		3,985	2,694		46,651	33,067	6,161	3,954
Michigan	28,287	20,953		5,331	5,192		64,416	56,250	57,518	45,952
Minnesota	180,746	107,143		42,342	27,004		355,806	218,451	432,791	194,825

Mississippi	91,132	59,540	7,141	4,156	68,699	38,011	154,115	91,968
Missouri	84,870	47,824	13,716	9,104	250,318	191,682	245,128	157,203
Montana	17,693	7,899	4,421	2,411	20,357	9,075	72,784	35,528
Nebraska	87,132	54,390	21,314	13,614	216,088	137,421	203,765	135,692
Nevada	123	58	68	53	570	450	280	179
New Hampshire	2,049	993	948	625	29,102	17,789	3,209	1,738
New Jersey	10,366	6,107	5,898	4,597	28,399	17,014	17,922	11,224
New Mexico	887	625	134	56	4,214	3,677	2,906	2,038
New York	60,895	31,051	32,374	24,613	263,034	217,373	70,780	50,810
North Carolina	23,742	17,767	6,347	4,233	85,581	85,062	53,977	37,326
North Dakota	52,698	31,389	22,550	17,961	50,512	27,024	167,000	81,155
Ohio	83,720	52,276	21,153	16,404	155,294	111,802	202,097	111,868
Oklahoma	18,088	6,914	7,292	3,968	79,137	56,232	73,427	52,015
Oregon	26,519	20,202	12,959	11,624	52,085	47,939	35,467	22,051
Pennsylvania	36,927	19,467	20,430	13,759	219,581	138,058	74,280	44,052
Rhode Island	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
South Carolina	9,939	9,906	571	570	13,811	13,748	10,665	10,635
South Dakota	39,465	22,571	12,027	8,095	99,637	68,944	105,016	52,846
Tennessee	62,042	30,297	11,570	9,619	176,651	100,020	166,748	72,638
Texas	58,755	34,143	10,468	5,158	93,679	67,967	128,727	82,785
Utah	3,438	2,766	2,771	2,632	36,237	35,854	9,504	8,066
Vermont	(¹)	(¹)	3,319	2,189	76,978	43,039	8,634	4,956
Virginia	37,528	22,500	11,314	8,247	133,971	111,543	76,294	56,677
Washington	37,361	24,178	20,360	16,564	28,215	23,750	59,774	40,479
West Virginia	5,806	4,168	2,238	1,797	31,825	27,455	13,891	9,415
Wisconsin	73,718	37,093	29,278	21,503	276,765	195,192	257,203	125,960
Wyoming	3,130	1,211	591	113	8,213	5,777	6,910	3,012
Foreign ⁴	483	64	256	131	1,935	826	96,031	24,983
United States	2,104,221	1,250,216	531,897	363,462	4,970,839	3,594,064	5,158,449	2,837,204

See end of table for footnote references.

Table 8—Cooperative business volume¹ by commodity and State, 1983²—Continued

State	Meats and groceries			Petroleum products			Seed		Miscellaneous supplies ⁷		
	Gross	Net		Gross	Net		Gross	Net	Gross		Net
<i>1,000 dollars</i>											
Alabama	34	34		18,623	18,463		33,799	16,324	37,891	23,812	
Alaska							(³)	(³)	(³)	(³)	
Arizona				1,409	1,020		657	613	16,375	11,120	
Arkansas	284	284		118,631	58,746		15,055	10,461	41,416	28,308	
California	17,931	6,109		30,271	4,415		14,178	14,178	24,968	20,365	
Colorado	1,005	1,005		136,818	84,317		4,085	3,425	29,830	24,884	
Connecticut	4	4		25,106	19,113		2,361	1,334	11,207	7,254	
Delaware	123	48		48,211	29,295		2,826	1,716	7,833	4,734	
Florida	(³)	(³)		8,443	6,207		4,451	2,718	11,181	9,452	
Georgia	(³)	(³)		6,157	5,088		10,417	10,244	40,803	39,788	
Hawaii	(³)	(³)		287	74		47	36	671	571	
Idaho	43	43		94,104	50,048		6,244	5,211	18,747	13,944	
Illinois	650	650		611,286	325,332		54,868	37,678	62,197	43,238	
Indiana	405	405		352,757	210,549		13,200	11,000	27,908	19,702	
Iowa	2,704	2,704		986,422	451,712		58,927	28,383	74,026	56,543	
Kansas	10,502	10,502		831,714	238,610		10,487	10,487	75,304	62,747	
Kentucky	642	292		135,596	79,968		14,809	11,033	27,827	19,535	
Louisiana	166	166		17,143	7,061		20,492	12,992	26,552	20,150	
Maine	(³)	(³)		38,522	32,530		3,018	1,786	14,667	9,923	
Maryland	348	136		198,802	124,573		12,567	8,240	28,138	18,055	
Massachusetts	62	62		37,745	28,722		4,911	3,249	18,791	12,466	
Michigan	6,572	6,572		98,074	70,157		9,684	8,299	35,517	26,536	
Minnesota	18,457	15,887		665,622	359,840		39,560	29,202	152,392	85,010	

Mississippi	(3)	6,573	(3)	6,573	41,188	27,978	29,760	17,587	27,034	17,922
Missouri	(3)	24,254	(3)	24,254	373,110	234,787	32,383	27,152	88,002	48,883
Montana	(3)	1,333	(3)	1,333	172,876	85,964	2,949	1,201	39,749	31,710
Nebraska	(3)	24,254	(3)	24,254	571,537	285,173	8,174	5,549	65,690	51,499
Nevada	(3)	3	(3)	3	361	70	132	213	184	184
New Hampshire	(3)	4,396	(3)	4,396	25,098	19,105	944	533	4,091	2,509
New Jersey	(3)	41	(3)	41	73,506	60,293	4,565	2,922	19,936	13,595
New Mexico	(3)	286	(3)	286	4,289	1,262	283	283	1,251	1,141
New York	(3)	2524	(3)	2524	863,577	599,745	21,412	14,145	118,645	84,488
North Carolina	(3)	4,560	(3)	4,560	25,189	24,474	8,673	8,636	19,185	15,641
North Dakota	(3)	61	(3)	61	348,092	183,772	18,002	14,616	77,034	60,694
Ohio	(3)	292	(3)	292	193,577	139,079	36,750	27,129	39,969	32,304
Oklahoma	(3)	286	(3)	286	135,751	65,796	5,762	5,762	30,327	25,640
Oregon	(3)	590	(3)	590	88,461	42,441	11,032	9,980	43,642	38,703
Pennsylvania	(3)	292	(3)	292	445,926	337,165	17,829	11,053	79,081	52,393
Rhode Island	(3)	292	(3)	292	12,608	9,577	(3)	(3)	(3)	(3)
South Carolina	(3)	292	(3)	292	2,724	2,718	3,273	3,263	6,561	6,468
South Dakota	(3)	590	(3)	590	287,404	166,879	14,606	12,140	54,208	42,976
Tennessee	(3)	590	(3)	590	69,713	35,722	39,218	21,508	87,249	41,792
Texas	(3)	590	(3)	590	158,473	79,270	22,503	21,600	46,514	41,247
Utah	(3)	590	(3)	590	10,816	5,056	2,881	2,762	12,043	11,472
Vermont	(3)	590	(3)	590	37,881	28,857	3,224	1,787	14,257	8,722
Virginia	(3)	590	(3)	590	176,395	110,793	18,016	13,541	67,209	43,895
Washington	(3)	590	(3)	590	148,026	80,806	13,076	11,407	33,351	21,869
West Virginia	(3)	590	(3)	590	34,826	22,071	3,542	2,423	7,689	5,260
Wisconsin	(3)	590	(3)	590	520,220	298,993	28,172	16,625	108,018	88,118
Wyoming	(3)	590	(3)	590	47,015	22,733	644	465	4,297	3,101
Foreign ⁴	(3)	590	(3)	590	431,137	257,422			362	118
United States	(3)	590	(3)	590	9,761,521	5,433,841	684,940	483,081	1,881,924	1,351,768

See end of table for footnote references.

Table 8—Cooperative business volume¹ by commodity and State, 1983²—Continued

State	Total supplies		Services		Cooperatives	Total	
	Gross	Net	Receipts ⁸	No.		Gross	Net
	----- 1,000 dollars -----				No.	--- 1,000 dollars ---	
Alabama	363,534	263,491	4,305	83		923,486	767,492
Alaska	(3)	(3)	(3)	1		(3)	(3)
Arizona	36,367	17,670	6,055	17		589,926	487,412
Arkansas	471,887	274,324	40,419	117		1,455,195	1,214,883
California	397,517	262,606	74,251	247		6,374,872	5,353,990
Colorado	317,730	208,481	21,567	77		1,029,672	826,975
Connecticut	118,793	88,332	(3)	5		210,739	169,381
Delaware	101,670	60,890	628	5		144,238	103,344
Florida	339,804	171,303	51,035	66		2,161,209	1,495,739
Georgia	300,536	285,318	5,091	23		1,300,505	1,258,924
Hawaii	10,484	7,597	6,056	23		47,477	40,343
Idaho	204,319	113,026	10,993	65		777,206	635,692
Illinois	1,651,766	946,267	101,949	279		5,988,200	4,461,596
Indiana	870,737	529,209	29,020	90		2,570,564	1,907,614
Iowa	2,706,630	1,401,460	143,148	362		8,524,308	5,757,965
Kansas	1,496,487	728,313	97,024	239		4,028,743	2,522,196
Kentucky	355,459	224,023	7,229	72		904,586	727,759
Louisiana	216,783	127,796	9,560	87		745,964	599,988
Maine	132,452	91,745	1,985	9		171,194	128,109
Maryland	373,705	240,986	3,341	29		727,381	561,269
Massachusetts	137,010	95,788	439	17		398,598	347,625
Michigan	321,961	253,746	16,104	108		2,156,621	1,787,679
Minnesota	1,922,198	1,069,859	108,518	673		7,922,272	5,334,798

Mississippi.....	435,461	269,364	20,831	151	1,197,584	980,046
Missouri.....	1,109,687	733,305	82,522	113	3,258,690	2,349,073
Montana.....	338,067	180,963	5,535	135	655,326	406,273
Nebraska.....	1,216,828	722,756	66,535	248	3,264,685	2,525,358
Nevada.....	1,946	1,318	1,491	4	26,558	25,929
New Hampshire.....	67,508	44,646	368	2	95,697	69,393
New Jersey.....	179,159	127,089	4,566	24	358,533	289,782
New Mexico.....	14,599	9,679	4,231	20	75,191	64,018
New York.....	1,466,656	1,047,417	25,676	220	3,163,832	2,273,983
North Carolina.....	227,462	196,749	7,458	36	682,004	644,939
North Dakota.....	768,621	448,877	26,562	396	2,592,838	1,878,765
Ohio.....	749,991	504,809	60,969	167	3,552,482	2,642,056
Oklahoma.....	358,489	223,215	32,537	143	1,270,539	879,593
Oregon.....	277,831	200,401	22,530	52	1,058,646	872,507
Pennsylvania.....	932,568	641,022	12,444	88	2,385,247	1,813,924
Rhode Island.....	3 ⁽³⁾	3 ⁽³⁾	3 ⁽³⁾	1	3 ⁽³⁾	3 ⁽³⁾
South Carolina.....	48,220	47,980	1,046	10	194,957	190,720
South Dakota.....	627,449	388,473	27,098	233	1,727,644	1,233,611
Tennessee.....	630,971	328,498	15,661	106	1,061,494	708,847
Texas.....	539,532	349,046	151,451	422	2,647,401	2,083,773
Utah.....	80,952	71,695	5,008	39	400,588	351,986
Vermont.....	159,070	98,132	975	10	435,611	359,760
Virginia.....	539,169	378,708	8,940	110	1,148,767	977,914
Washington.....	379,132	246,206	71,005	130	2,211,385	1,511,968
West Virginia.....	102,447	74,220	2,312	45	172,692	143,786
Wisconsin.....	1,317,456	805,966	67,837	368	4,949,260	4,019,918
Wyoming.....	73,514	38,986	1,611	22	109,205	73,602
Foreign ⁴	536,435	283,545	192		1,156,377	848,419
United States.....	26,052,783	15,942,957	1,468,316	5,989	88,730,512	66,754,824

See end of table for footnote references.

Footnotes to table 8.

¹Data covering operations of cooperatives whose business years ended during the 1983 calendar year. Includes independent local cooperatives, federations, centralized cooperatives, and cooperatives with mixed organizational structures. The volume of products marketed is allocated to the State in which they originate and the volume of farm supplies is allocated to the State in which they are sold; service volume is allocated to the State of origin when services relate to farm products marketed or to the State of destination when related to farm supplies sold.

²Gross business volume includes sales between cooperatives. Net business volume excludes sales between cooperatives. Totals may not add due to rounding.

³Dollar volume is not shown to avoid disclosing operations of individual cooperatives.

⁴Includes value of farm products imported, farm supplies exported, services related to imported farm products or exported farm supplies, sales to domestic military installations, or sales of farm products not received directly from member-patrons.

⁵Included in dollar volume of California.

⁶Includes forest products, hays, hops, nursery stock, coffee, and other farm products not separately classified. Also includes manufactured food products and resale items marketed by cooperatives.

⁷Includes automotive supplies, hardware, chicks, and other supplies not separately classified.

⁸Receipts for services related to marketing and purchasing activities but not included in the volumes reported for these activities.

Table 9—Selected balance sheet data for farmer cooperatives, 1983

Principal products marketed and major function	Cooperatives ¹	Total assets	Total liabilities	Net worth
Products marketed:	<i>Number</i>	<i>----- 1,000 dollars -----</i>		
Cotton and cotton products	462	1,373,833	904,748	469,085
Dairy products	401	3,925,897	2,545,085	1,380,812
Fruits & vegetables	361	2,832,064	1,969,418	862,646
Grain, soybeans, and soybean meal & oil	1,673	6,843,965	3,617,739	3,226,226
Livestock, wool, and products	547	676,344	442,761	233,583
Rice	57	503,700	304,598	199,102
Sugar products	45	927,019	592,897	334,122
Other products ²	101	648,760	449,695	199,065
Total farm products	3,647	17,731,582	10,826,941	6,904,641
Total farm supplies	2,208	10,780,005	6,258,229	4,521,776
Total related services	134	297,993	189,882	108,111
Combined total	5,989	28,809,580	17,275,052	11,534,528

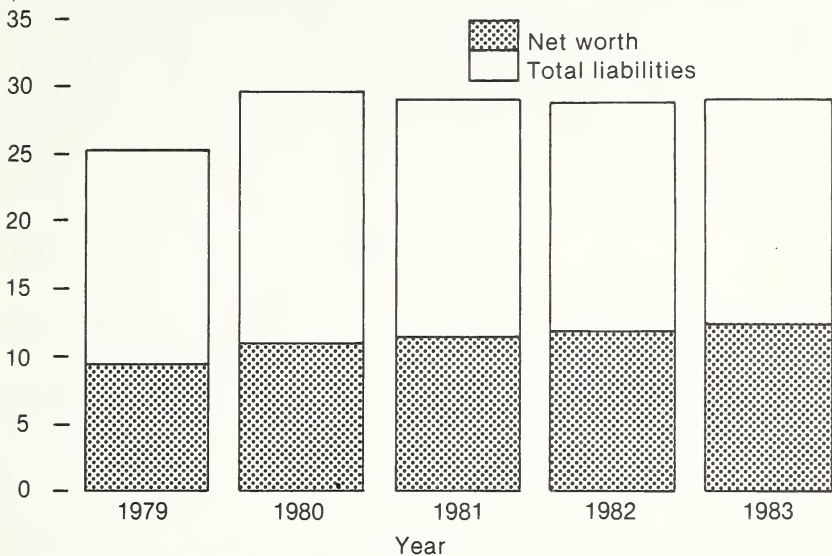
¹Many cooperatives are multiproduct and multifunctional in operations and are classified according to predominant commodity or function indicated by business volume.

²Includes dry edible beans and peas, nuts, tobacco, and miscellaneous products.

Figure 8

Farmer Cooperatives' Net Worth and Total Liabilities

\$ billion


Table 10—Assets of farmer cooperatives, 1983

Principal products marketed and major function	Assets from own operations	Investments in other cooperatives	Total assets	Investments in other co-ops as percent of total
-----1,000 dollars-----			Percent	
Products marketed:				
Cotton and cotton products	1,288,579	85,254	1,373,833	6.2
Dairy products	3,614,482	311,415	3,925,897	7.9
Fruits & vegetables	2,758,642	73,422	2,832,064	2.6
Grain, soybeans, and soybean meal & oil.....	5,842,971	1,000,993	6,843,965	14.6
Livestock, wool, and products	630,594	45,750	676,344	6.8
Rice	492,614	11,087	503,700	2.2
Sugar products	918,999	8,020	927,019	0.9
Other products ¹	642,452	6,308	648,760	1.0
Total farm products.....	16,189,333	1,542,249	17,731,582	8.7
Total farm supplies.....	9,380,284	1,399,721	10,780,005	13.0
Total related services	294,511	3,482	297,993	1.2
Combined total.....	25,864,128	2,945,452	28,809,580	10.2

¹Includes dry edible beans and peas, nuts, tobacco, and miscellaneous products.

cooperatives again maintained more than half the total (59.9 percent), while farm supply cooperatives accounted for 39.2 percent. The highest percent of total assets represented by net worth for all marketing cooperatives (47.4 percent) was for cooperatives primarily marketing grain, soybeans, and soybean meal and oil. The lowest percent (30.5 percent) was for cooperatives primarily marketing fruits and vegetables. Cooperatives classified as farm marketing and farm supply had 38.9 and 41.9 percent, respectively.

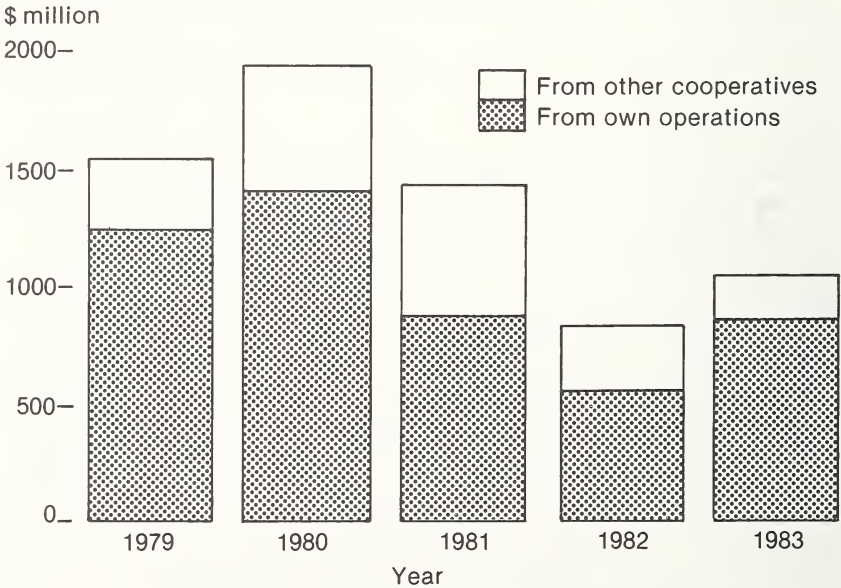
Net Margins

Total net margins less losses for all cooperatives were nearly \$1.1 billion, including intercooperative dividends and refunds (figure 9). Net margins were up 23.5 percent from the previous years' total of \$854 million. Intercooperative dividends of \$193 million were down 34.4 percent from \$294 million. Losses totaled \$88.7 million.

Marketing cooperatives' net margins (\$709 million) rose 3.7 percent from \$684 million (table 11). Also, marketing cooperatives' net margins accounted for 67.2 percent of total net margins and 0.8 percent of gross sales volume. Total net margins for marketing cooperatives whose prin-

Figure 9

Net Margins of Farmer Cooperatives



cial products were grain, soybeans, and soybean meal and oil decreased 3.5 percent but maintained the largest percent of marketing cooperative net margins in both 1983 (37.6 percent) and 1982 (40.4 percent).

Farm supply cooperatives' net margins of \$315 million jumped 92.6 percent from \$164 million. Farm supply cooperatives' percent of total net margins rose from 19.2 percent to 29.9 percent. The largest increase in net margins generated by farm supply cooperatives came from their own operations, a dramatic leap—from \$7 million to \$234 million. The increase in net margins was mainly due to improved operations of several larger cooperatives.

Farmer cooperatives' net margins from their operations totaled more than \$862 million—up 53.9 percent from \$560 million. Almost 18.3 percent, or \$192 million, of total net margins were generated from other cooperatives, down from 34.4 percent. Marketing cooperatives' net margins from other cooperatives decreased from 20.1 percent to 15.7 percent of the total. Nearly 20.6 percent of the net margins generated by grain cooperatives came from other cooperatives.

Table 11—Farmer cooperative net margins, 1983¹

Principal products marketed and major function	Cooperatives ²	Total net margins	Margins from own operations	Margins from other cooperatives
	<i>Number</i>	<i>-----1,000 dollars-----</i>		
Products marketed:				
Cotton and cotton products	462	135,129	124,575	10,554
Dairy products	401	190,660	156,647	34,013
Fruits & vegetables	361	66,147	59,931	6,216
Grain, soybeans, and soybean meal & oil.....	1,673	266,729	211,778	54,951
Livestock, wool, and poultry products.....	547	16,796	13,543	3,253
Rice	57	11,169	9,672	1,497
Sugar products.....	45	13,363	13,117	246
Other products ³	101	9,420	8,926	494
Total farm products.....	3,647	709,413	598,189	111,224
Total farm supplies.....	2,208	315,408	234,390	81,018
Total related services	134	30,447	29,931	516
Combined total.....	5,989	1,055,268	862,510	192,758

¹Cooperatives operating on a pooling basis are not included.

²Many cooperatives are multiproduct and multifunctional in operations and are classified according to predominant commodity or function indicated by business volume.

³Includes dry edible beans and peas, nuts, tobacco, and miscellaneous products.

Other Service Organizations

Data for other types of service cooperatives or organizations are shown by farm credit district in table 12 and by State in table 13. A map showing States in each district appears as figure 10.

Federal Land Bank Associations

Federal land bank associations totaled 462 and operated throughout the United States and the associated Commonwealth of Puerto Rico with 662,276 memberships. The Louisville district led all farm credit districts with 13.6 percent of the total number of associations and the Texas district ranked second with 10.6 percent. The Columbia district was the leader in total members with 14.5 percent of the total. The St. Paul district was second, with 13.6 percent of total members but led all farm credit districts with 19.7 percent of total loans made. The associations made loans of nearly \$4.8 billion to farm members.

Production Credit Associations

Production credit associations, totaling 403, made loans of nearly \$30.3 billion to 471,266 stockholders.

The Columbia farm credit district was the leader with 13.2 percent of total associations. The Louisville district led in number of stockholders with 21.5 percent of the total, while the St. Paul district led in loans made with 16.3 percent.

Banks for Cooperatives

Thirteen banks for cooperatives made loans of more than \$27.9 billion to 4,057 agriculturally oriented member cooperatives.

The St. Paul district led all farm credit districts with 22.2 percent of total members; the Omaha district was second with 14.1 percent. However, the Sacramento district was the leader in loans made, with 20.4 percent of the total.

Rural Credit Unions

Rural credit unions numbered 821 with 2,279,057 members holding share savings of more than \$3.7 billion.

California led all States in number of associations with 8.6 percent of total, in members with 27.7 percent of the total and in share savings with 33.6 percent of the total.

Rural Electric Cooperatives

Rural electric cooperatives, totaling 927, reported 9.6 million consumer members and revenue of nearly \$15.4 billion.

Texas again led all States, with 8.7 percent of total associations, 9.4 percent of total consumer memberships, and 7.7 percent of total revenue.

Rural Telephone Cooperatives

Rural telephone cooperatives, totaling 253, with revenues of more than \$507 million, had 999,546 subscriber members. These cooperatives were all financed by the Rural Electrification Administration (REA).

Iowa had the largest number of cooperatives (14.2 percent of the total), while Texas accounted for more subscriber memberships (8.8 percent) and revenue (12 percent) than any other State.

Dairy Herd Improvement Associations

Dairy herd improvement associations totaled 1,068. Memberships numbered 40,551, and cows tested totaled more than 3.4 million.

Minnesota accounted for 74, or 6.9 percent, of the total number of associations. New York (3,040), Pennsylvania (3,999), Minnesota (4,849), and Wisconsin (6,295) combined accounted for 44.8 percent of total members. Nearly 525,000, or more than 15.4 percent, of the cows tested were in California.

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Elizabeth J. Simmons/ and John W. Stutzman*

Table 12—Number and level of activity of Farm Credit System cooperatives by district¹

District ²	Federal Land Banks			Production Credit Associations			Banks for Cooperatives	
	Associations	Members	Loans made during year	Associations	Members	Loans made during year ³	Member cooperatives ⁴	Loans made during year ⁵
	-----No.-----		1,000 dol.		-----No.-----	1,000 dol.	No.	1,000 dol.
Springfield	20	18,586	89,736	20	20,815	370,812	155	882,528
Baltimore	26	38,064	226,860	26	39,192	604,406	133	820,744
Columbia	45	95,976	445,770	53	69,216	1,644,698	133	1,277,000
Louisville	63	69,259	325,663	36	101,145	2,736,490	354	2,368,812
New Orleans	33	38,310	226,232	22	28,844	946,024	271	2,752,868
St. Louis	40	63,014	361,800	37	44,339	2,511,027	332	2,140,609
St. Paul	47	90,116	941,855	45	59,465	4,938,851	899	3,779,923
Omaha	31	77,379	613,690	40	26,192	4,598,931	574	2,522,941
Wichita	37	66,963	346,695	36	14,282	2,982,934	516	3,018,225
Texas	49	39,870	265,268	30	19,586	1,980,424	221	1,601,926
Sacramento ..	31	24,675	620,052	28	21,610	4,162,045	209	5,685,929
Spokane	40	40,064	321,657	30	26,580	2,774,128	260	1,085,739
United States	462	662,276	4,785,278	403	471,266	30,250,770	4,057	27,937,244

¹For year ended December 31, 1983. Source: Farm Credit Administration.²See figure 6.³Agricultural loans.⁴Does not include the Central Bank--stockholder in each of the district banks.⁵Excludes participations sold to commercial banks.

Figure 10

Cooperative Farm Credit Districts

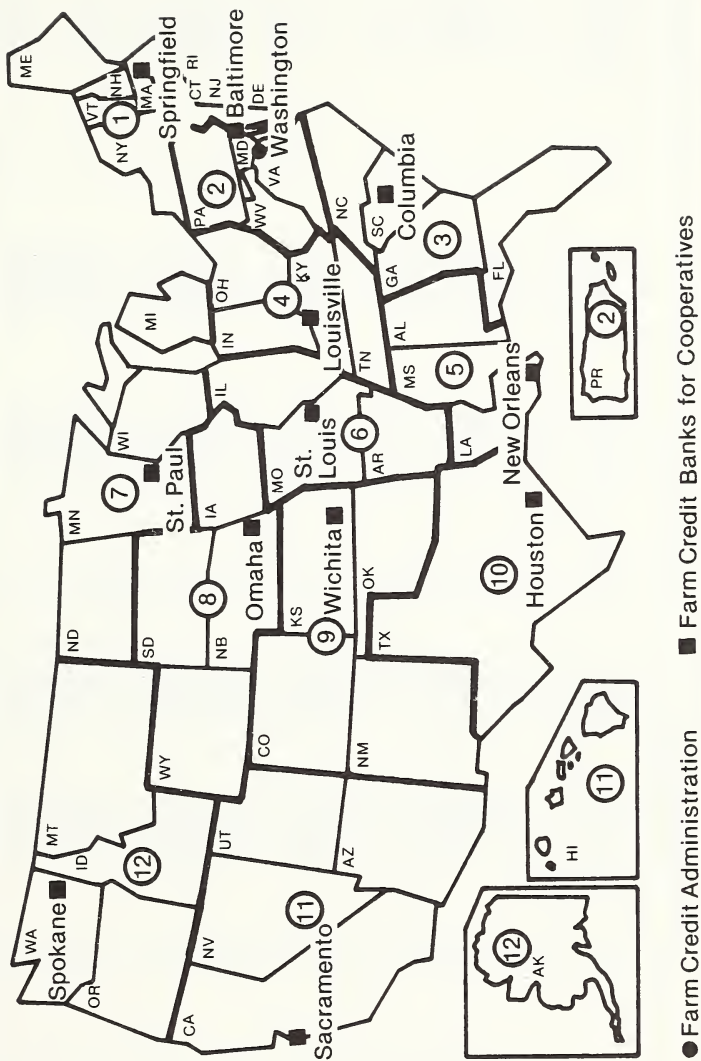


Table 13—Number, participation, and level of activity of service cooperatives by State¹

State	Rural Credit Unions ²				Rural Electric Cooperatives ³				Rural Telephone Cooperatives ³			
	Co-ops	Members	Share/ savings	-----No.-----	Co-ops	Members (consumers)	Revenue 1,000 dol.	-----No.-----	Co-ops	Members (subscribers)	Revenue 1,000 dol.	-----No.-----
Alabama	14	19,027	24,114		22	304,086	370,449		3	18,065	6,770	
Alaska	1	176	79		13	132,376	205,671		7	26,516	26,785	
Arizona	11	21,169	23,137		7	74,813	223,180		1	2,680	3,247	
Arkansas	10	7,651	15,213		20	282,223	545,640		2	5,834	2,643	
California	71	631,258	1,249,000		3	11,115	9,109					
Colorado	17	14,851	16,435		24	257,447	592,458		6	7,553	5,292	
Connecticut	4	7,474	6,140									
Delaware	2	3,399	6,485		1	33,046	25,811					
Florida	17	31,741	36,736		16	446,363	485,459					
Georgia	17	16,253	13,757		43	752,551	1,125,622		4	19,407	7,500	
Hawaii	34	70,125	186,300									
Idaho	12	11,214	9,709		9	41,521	37,847		3	9,049	4,617	
Illinois	26	74,751	63,406		30	205,935	360,242		7	22,582	10,023	
Indiana	19	17,677	37,115		43	315,833	551,681		9	22,126	9,475	
Iowa	24	14,560	16,839		52	172,203	325,272		36	51,083	19,949	
Kansas	19	49,414	142,300		37	168,085	339,668		11	37,682	22,826	
Kentucky	8	10,820	11,220		28	453,513	1,040,070		8	67,701	26,328	
Louisiana	20	17,041	18,294		14	302,359	691,678					
Maine	31	87,527	110,300		4	12,591	8,152					
Maryland	14	35,600	55,933		2	93,578	109,209					
Massachusetts	15	41,786	68,860									
Michigan	49	335,462	405,800		14	183,552	158,344					
Minnesota	39	125,608	209,100		50	430,402	738,545		19	59,831	24,287	

Mississippi.....	18	11,289	5,107	23	413,362	532,336	8	43,144	19,262
Missouri.....	9	15,404	19,268	47	422,677	902,141			
Montana.....	26	55,386	125,000	25	90,833	103,119	9	33,268	30,203
Nebraska.....	11	7,508	7,008	4	11,807	95,439	7	12,282	5,560
Nevada.....	6	7,067	10,528	3	13,250	15,127			
New Hampshire.....	5	7,420	11,260	1	47,109	32,672			
New Jersey.....	12	13,181	9,486	1	8,071	7,161			
New Mexico.....	12	6,872	5,878	17	122,384	218,870	5	13,801	12,017
New York.....	38	130,885	216,200	4	10,872	5,688			
North Carolina.....	29	37,761	26,992	29	471,751	423,750	9	78,666	25,268
North Dakota.....	13	32,620	87,826	26	95,920	710,821	10	53,804	28,937
Ohio.....	14	27,277	17,897	28	232,749	374,465	7	5,650	1,880
Oklahoma.....	7	18,887	32,507	27	322,184	567,707	2	31,850	21,920
Oregon.....	19	72,549	115,500	14	92,727	99,855	10	31,047	18,308
Pennsylvania.....	26	29,214	31,254	13	156,315	194,824			
Rhode Island.....	1	478	380						
South Carolina.....	4	6,549	9,119	22	338,896	453,042	6	82,528	36,550
South Dakota.....	12	4,437	5,842	34	104,695	193,375	14	41,159	23,709
Tennessee.....	5	8,203	8,272	20	524,955	500,009	7	81,308	28,450
Texas.....	31	55,045	108,700	81	906,943	1,187,755	21	87,576	60,890
Utah.....	4	6,466	7,671	5	20,230	84,184	3	6,762	5,212
Vermont.....	13	9,231	8,089	3	16,655	16,867			
Virginia.....	10	15,611	19,346	14	238,210	248,335	5	12,036	4,717
Washington.....	9	31,757	55,240	9	51,019	51,083			
West Virginia.....	7	18,219	46,043	1	4,360	2,235	2	2,275	953
Wisconsin.....	1	633	633	30	164,971	293,242	11	31,361	13,159
Wyoming.....	5	4,524	4,368	14	67,250	133,031	1	920	565
United States.....	821	2,279,057	3,721,686	927	9,623,787	15,391,240	253	999,546	507,302

See end of table for footnote references.

Table 13—Number, participation, and level of activity of service cooperatives by State¹—Continued

State	Dairy Herd Improvement ⁴			State			Dairy Herd Improvement ⁴		
	Associations ⁵	Members (herds)	Cows tested	Associations ⁵	Members (herds)	Cows tested	Associations ⁵	Members (herds)	Cows tested
		<i>Number</i>			<i>Number</i>			<i>Number</i>	
Alabama.....	17	185	24,165	Montana.....	7	105			9,694
Alaska.....		1	60	Nebraska.....	32	552			37,868
Arizona.....	1	122	58,460	Nevada.....	8	34			10,871
Arkansas.....	35	237	16,006	New Hampshire.....	8	235			14,753
California.....	24	1,305	524,989	New Jersey.....	5	206			15,918
Colorado.....	5	223	33,023	New Mexico.....	3	49			22,529
Connecticut.....	6	299	25,009	New York.....	48	3,040			225,961
Delaware.....	1	54	5,225	North Carolina.....	21	636			68,749
Florida.....	10	60	15,755	North Dakota.....	18	170			10,579
Georgia.....	27	305	39,627	Ohio.....	10	1,724			110,690
Hawaii.....	1	7	3,712	Oklahoma.....	19	308			23,727
Idaho.....	26	508	53,238	Oregon.....	10	400			49,832
Illinois.....	43	1,252	74,445	Pennsylvania.....	60	3,999			233,760
Indiana.....	46	922	57,502	Rhode Island.....	2	24			1,439
Iowa.....	53	1,408	72,475	South Carolina.....	11	211			31,671
Kansas.....	46	777	53,281	South Dakota.....	17	226			14,576
Kentucky.....	39	573	38,430	Tennessee.....	42	754			65,641
Louisiana.....	15	297	30,137	Texas.....	34	678			92,287
Maine.....	12	484	26,428	Utah.....	19	356			41,646
Maryland.....	11	659	58,359	Vermont.....	23	1,033			63,425
Massachusetts.....	6	331	20,087	Virginia.....	37	931			91,946
Michigan.....	1	1,646	136,375	Washington.....	23	644			93,945
Minnesota.....	74	4,849	250,936	West Virginia.....	11	172			13,468
Mississippi.....	26	303	29,628	Wisconsin.....	28	6,295			351,737
Missouri.....	39	941	65,480	Wyoming.....	8	21			2,202
				United States.....	1,068	40,551			3,411,746

¹For year ended December 31, 1983.²Source: Credit Union National Association, Inc. (Includes federally chartered and State-chartered credit unions.)³Source: Rural Electrification Administration, USDA.⁴Source: Agricultural Research Service, USDA.⁵Official DHI (includes Dairy Herd Improvement Registry).

**U.S. Department of Agriculture
Agricultural Cooperative Service**

Agricultural Cooperative Service provides research, management, and educational assistance to cooperatives to strengthen the economic position of farmers and other rural residents. It works directly with cooperative leaders and Federal and State agencies to improve organization, leadership, and operation of cooperatives and to give guidance to further development.

The agency (1) helps farmers and other rural residents develop cooperatives to obtain supplies and services at lower cost and to get better prices for products they sell; (2) advises rural residents on developing existing resources through cooperative action to enhance rural living; (3) helps cooperatives improve services and operating efficiency; (4) informs members, directors, employees, and the public on how cooperatives work and benefit their members and their communities; and (5) encourages international cooperative programs.

The agency publishes research and educational materials and issues *Farmer Cooperatives* magazine. All programs and activities are conducted on a nondiscriminatory basis, without regard to race, creed, color, sex, or national origin.